

# BIO-BOTANICA<sup>®</sup>

## BOTANICAL EXTRACTS ARE WHAT WE DO

**BIO-BOTANICA<sup>®</sup> INC.**

*Where science brings out  
the best of nature.™*



Bio-Botanica<sup>®</sup>, Inc.

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Worldwide distribution, Made in the U.S.A

98262 Ver 7. 1118

Personal Care  
**Guide**



BIO-BOTANICA INC.





BIO-BOTANICA® INC.  
SINCE 1971

## MISSION

To inspire healthy living by offering products that empower each and every one of us to take charge of our health

## VISION

To inspire, empower and enhance the quality of life for all

## VALUES

**CUSTOMER FIRST** - We strive to do our best for our customers at all times

**QUALITY** - We take pride in what we do

**INTEGRITY** - We do what is right

**TEAMWORK** - We are stronger together

**SAFETY** - Always first in everything we do

**EMBRACE CHANGE** - Opportunities are a result of change

## WHERE SCIENCE BRINGS OUT THE BEST OF NATURE™



BIO-BOTANICA® INC.

Bio-Botanica® is a leading manufacturer and supplier of high-quality botanical extracts for the Supplement, Food/Beverage, Cosmetic and Personal Care industries. With over 46 years of experience working with botanical extracts, we can help you develop new, innovative and functional products for today's competitive marketplace.

Bio-Botanica® employs a professional staff of natural product chemists, pharmacognosists, microbiologists, formulation chemists and herbalists. Our Analytical Chemists utilize state-of-the-art equipment such as HPLC, FTIR, GC/MS, LC/MS-MS, TLC, ICP/MS and TOC to properly validate botanical quality, integrity and purity. Our experienced staff and modern laboratories are a tremendous resource when looking for solutions to your botanical applications.

Bio-Botanica's 140,000 square foot kosher-inspected, GMP Certified and organic certified manufacturing facility follows strict cGMP, SOP and GLP procedures. Our broad-range manufacturing services include custom extracting, blending, spray-drying, vacuum drying and milling, enabling us to deliver high-quality products to meet your needs.





At Bio-Botanica®, we are committed to the good earth and all its fruitful gifts as a natural products extraction company. Family owned and founded in 1972 and located in the United States, over the past forty years we have kept the same standards of unexcelled quality and customer satisfaction with a proven track record of on-time delivery of technologically advanced botanical extracts. We pride ourselves in having long term relationships, call us to find out how we can partner up.



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## BOTANICAL AUTHENTICATION HOLISTICALLY BALANCED®

The therapeutic value of a plant extract lies in its 'holistic balance' of components, which Bio-Botanica® captures using our pioneering Bio-chelated® extraction technique. We now employ the same holistic principles to our 'holistically balanced' botanical authentication.

Traditionally, phytochemical authentication involves the analysis of one or a few components. Our innovative 'holistic authentication™' expands upon tradition to capture the entire phytochemical spectrum of a plant. We obtain a 'botanical fingerprint' using state of the art LC/MS-MS along with other proprietary analytical techniques. The data is analyzed using advanced chemometric approaches, including Principal Component Analysis (PCA), which can detect minor deviations from the natural balance.



The result of our 'holistic authentication™' is a botanical product that is as close to nature as possible. The value is passed on to both you, and the consumer, who can rest assured that the botanical extract in your hand is authentic, safe, and effective.



## ADVANTAGES OF THE BOTANICAL FINGERPRINT

The advantages of the 'botanical fingerprint' approach to botanical authentication are numerous and include:

- Detection of botanical adulterants (purposeful or accidental).
- Analysis of marker compound(s), both in qualitative and quantitative.
- Pesticide monitoring.
- Detection of contaminants from agriculture, harvesting, shipping, and processing.
- Identification of microbial contamination.
- Detection of degradation.
- Heavy metal analysis.

Our process is so sensitive we can even detect differences amongst:

- Harvest season • Geographic location
- Environmental conditions • Post harvest handling

## BIO-CHELATION®

Bio-Chelation® simulates the plant cell in its ability to keep all the minerals and inclusions (reserve food material and active constituents) in a colloidal aqueous medium. The process stays away from the high alcoholic, heavy toxic solvents or heat applications and instead uses cold low alcoholic menstruums carefully adapted to each individual plant and its constituents. It is then concentrated under high vacuum in either glass lined or stainless steel vessels.

Our extracts are unique with maximum potency without any undesirable excipient and easily solubilized giving a clean non-turbid very effective product with excellent physical and chemical characteristics unavailable from any other competitor.

Our extracts are holistically balanced® possessing the full spectrum of constituents matching as close as possible the way they exist in the natural plant.

## THE BIO-BOTANICA® HERBARIUM

Bio-Botanica® houses one of the oldest and most impressive private Herbariums, in the United States. This priceless resource contains over 800 authenticated herbal plant samples, as they appear in nature, and have been obtained from all corners of the world.

Authenticated samples from the herbarium serve as the standard by which all incoming raw material is judged. Using carefully controlled extraction techniques, we have developed a library of standard extracts that serve the 'authentic botanical fingerprints.'



"WE HARVEST  
EARTH'S RICHEST BOTANICALS,  
SO THAT WE CAN PREPARE FOR YOU THE FINEST,  
MOST EFFICACIOUS, INGREDIENTS AVAILABLE."



# BIO-BOTANICA® NATURALLY DERIVED PLANT EXTRACTS MADE WITH BRONTIDE™

Bio-Botanica, Inc® has partnered with Genomatica Inc. to provide a new line of botanical extracts in a

**Naturally Derived Butylene Glycol Made from the  
Fermentation of Natural, Non-GMO Sugar.**

This naturally sourced butylene glycol has been designed for chemists and formulators looking for a multifunctional, all natural solvent that can be combined with all natural extracts for topical formulations in their effort to get away from synthetic solvents.

#### Features:

- Sustainable • Humectant • Boosts Effectiveness of Preservatives
- Adds Texture • Stabilizer

## It's Time For a Better Glycol



**Good For People** - Safe, clean, and non-irritating. Traditional butylene glycol production has impurities at double the levels of Brontide™. Clinical studies show Brontide™ to be non-irritating at levels up to 40%.

**Good For Our Planet** - Made from natural and renewable sugars Brontide™ helps us take another step towards reducing our dependency on petroleum-derived ingredients.

**Good For Formulators** - Integrates into current formulations without

sacrificing quality or needing reformulation.

**Good For Brands** - Brontide™ supports your ongoing commitment to making differentiated products with ingredients you're confident in and proud to tell your customers about.

| Code       | PRODUCT NAME                        | INCI NAME (Butylene Glycol and Water)                   |
|------------|-------------------------------------|---|
| 3203BIOBG  | ALFALFA LEAF IN BIOBG               | <i>Medicago Sativa (Alfalfa) Leaf Extract</i>           |
| 3160BIOBG  | ALOE VERA GEL IN BIOBG              | <i>Aloe Barbadensis Leaf Extract</i>                    |
| 3204ABIOBG | ANGELICA ROOT IN BIOBG              | <i>Angelica Archangelica Root Extract</i>               |
| 3512BIOBG  | APRICOT IN BIOBG                    | <i>Prunus Armenica (Apricot) Fruit Extract</i>          |
| 3347BIOBG  | ARTICHOKE LEAF IN BIOBG             | <i>Cynara Scolymus (Artichoke) Leaf Extract</i>         |
| 3168BIOBG  | ASHWAGANDHA ROOT IN BIOBG           | <i>Withania Somnifera Root Extract</i>                  |
| 3310BIOBG  | ASTRAGALUS ROOT IN BIOBG            | <i>Astragalus Membranaceus Root Extract</i>             |
| 3995BIOBG  | AVOCADO IN BIOBG*                   | <i>Persea Gratissima (Avocado) Fruit Extract</i>        |
| 3208BIOBG  | BARBERRY ROOT IN BIOBG              | <i>Berberis Vulgaris Root Extract</i>                   |
| 3209ABIOBG | BAYBERRY BARK IN BIOBG              | <i>Myrica Cerifera (Bayberry) Bark Extract</i>          |
| 3209BIOBG  | BEE POLLEN GRANULES IN BIOBG        | <i>Pollen Extract</i>                                   |
| 3210CBIOBG | BILBERRY IN BIOBG                   | <i>Vaccinium Myrtillus Fruit Extract</i>                |
| 3210BIOBG  | BIRCH LEAF IN BIOBG                 | <i>Betula Alba Leaf Extract</i>                         |
| 3211BIOBG  | BLACK COHOSH ROOT IN BIOBG          | <i>Cimicifuga Racemosa Root Extract</i>                 |
| 3212BIOBG  | BLACK WALNUT HULLS IN BIOBG         | <i>Juglans Nigra (Black Walnut) Shell Extract</i>       |
| 3213BIOBG  | BLADDERWRACK FROND IN BIOBG         | <i>Fucus Vesiculosus Extract</i>                        |
| 3214BIOBG  | BLESSED THISTLE HERB IN BIOBG       | <i>Carbenia Benedicta Extract</i>                       |
| 3447BIOBG  | BLUEBERRY EXTRACT IN BIOBG*         | <i>Vaccinium Corymbosum (Blueberry) Fruit Extract</i>   |
| 3215BIOBG  | BLUEBERRY LEAF IN BIOBG             | <i>Vaccinium Angustifolium (Blueberry) Leaf Extract</i> |
| 3220BIOBG  | BONESET HERB IN BIOBG               | <i>Eupatorium Purpureum Flower/Leaf/Stem Extract</i>    |
| 3417BIOBG  | BOSWELLIA IN BIOBG                  | <i>Boswellia Serrata Extract</i>                        |
| 3312BIOBG  | BUPLEURUM ROOT IN BIOBG             | <i>Bupleurum Chinese Root Extract</i>                   |
| 3222BIOBG  | BURDOCK ROOT IN BIOBG               | <i>Arctium Lappa Root Extract</i>                       |
| 3223BIOBG  | CACTUS GRANDIFLORUS FLOWER IN BIOBG | <i>Cereus Grandiflorus (Cactus) Flower Extract</i>      |
| 3224BIOBG  | CALENDULA FLOWER IN BIOBG           | <i>Calendula Officinalis Flower Extract</i>             |
| 3225BIOBG  | CAPSICUM IN BIOBG                   | <i>Capsicum Annuum Fruit Extract</i>                    |
| 3452BIOBG  | CARROT EXTRACT IN BIOBG             | <i>Daucus Carota Sativa (Carrot) Root Extract</i>       |
| 3596BIOBG  | CASCARA SAGRADA BARK IN BIOBG       | <i>Rhamnus Purshiana Bark Extract</i>                   |
| 9945ABIOBG | CAT'S CLAW BARK IN BIOBG            | <i>Uncaria Tomentosa Bark Extract</i>                   |
| 3227BBIOBG | CATNIP HERB IN BIOBG                | <i>Nepeta Cataria Extract</i>                           |
| 3228BIOBG  | CELERY SEED IN BIOBG                | <i>Apium Graveolens (Celery) Seed Extract</i>           |
| 3230BIOBG  | CHAMOMILE FLOWER IN BIOBG           | <i>Chamomilla Recutita (Matricaria) Flower Extract</i>  |
| 3232BIOBG  | CHAPARRAL HERB IN BIOBG             | <i>Larrea Divaricata Extract</i>                        |
| 3234BIOBG  | CHICKWEED HERB IN BIOBG             | <i>Stellaria Media (Chickweed) Extract</i>              |
| 3235BIOBG  | CINNAMON BARK IN BIOBG              | <i>Cinnamomum Cassia Bark Extract</i>                   |

\*Indicates Fruitanical Extract



|            |                                  |   |
|------------|----------------------------------|---|
| 3236ABIOBG | CLEAVERS HERB IN BIOBG           | <i>Galium Aparine Extract</i>   |
| 3314BIOBG  | CODONOPSIS ROOT IN BIOBG         | <i>Codonopsis Lanceolata Root Extract</i>   |
| 3172BIOBG  | COFFEE SEED IN BIOBG*            | <i>Coffea Arabica (Coffee) Seed Extract</i>   |
| 3236BIOBG  | COLTSFOOT LEAF IN BIOBG          | <i>Tussilago Farfara (Coltsfoot) Leaf Extract</i>   |
| 3237BIOBG  | COMFREY LEAF IN BIOBG            | <i>Symphytum Officinale Leaf Extract</i>  |
| 3238BIOBG  | COMFREY ROOT IN BIOBG            | <i>Symphytum Officinale Root Extract</i>  |
| 3241BIOBG  | CORN FLOWER IN BIOBG             | <i>Centaurea Cyanus Flower Extract</i>  |
| 3242BIOBG  | CORNSILK IN BIOBG                | <i>Zea Mays (Corn) Silk Extract</i>   |
| 3243BIOBG  | COUCHGRASS RHIZOME IN BIOBG      | <i>Agropyron Repens Root Extract</i>  |
| 3244CBIOBG | CRANBERRY IN BIOBG               | <i>Vaccinium Macrocarpon (Cranberry) Fruit Extract</i>  |
| 3245BIOBG  | CUCUMBER IN BIOBG*               | <i>Cucumis Sativus (Cucumber) Fruit Extract</i>   |
| 3246BIOBG  | DAMIANA LEAF IN BIOBG            | <i>Turnera Diffusa Leaf Extract</i>   |
| 3248BIOBG  | DANDELION ROOT IN BIOBG          | <i>Taraxacum Officinale (Dandelion) Root Extract</i>  |
| 3249BIOBG  | DEVIL'S CLAW ROOT IN BIOBG       | <i>Harpagophytum Procumbens Root Extract</i>  |
| 3251BIOBG  | DONG QUAI ROOT IN BIOBG          | <i>Angelica Polymorpha Sinensis Root Extract</i>  |
| 3252BIOBG  | ECHINACEA IN BIOBG               | <i>Echinacea Angustifolia Root / Echinacea Purpurea Extract Root Extract / Echinacea Ppurpurea Flower/Leaf/Stem Extract</i> |
| 3253BIOBG  | ELDER FLOWER IN BIOBG            | <i>Sambucus Nigra Flower Extract</i>  |
| 3254BIOBG  | ELDERBERRY IN BIOBG*             | <i>Sambucus Nigra Fruit Extract</i>   |
| 3255BIOBG  | ELECAMPANE ROOT IN BIOBG         | <i>Inula Helenium Extract</i>   |
| 3266BIOBG  | ELEUTHERO ROOT IN BIOBG          | <i>Acanthopanax Senticosus (Eleuthero) Root Extract</i>   |
| 3256BIOBG  | EVENING PRIMROSE FLOWER IN BIOBG | <i>Oenothera Biennis (Evening Primrose) Flower Extract</i>  |
| 3257BIOBG  | EYEBRIGHT HERB IN BIOBG          | <i>Euphrasia Officinalis Extract</i>  |
| 3259BIOBG  | FENNEL SEED IN BIOBG             | <i>Foeniculum Vulgare (Fennel) Seed Extract</i>   |
| 3260BIOBG  | FENUGREEK SEED IN BIOBG          | <i>Trigonella Foenum-Graecum Seed Extract</i>   |
| 3260ABIOBG | FEVERFEW HERB IN BIOBG           | <i>Chrysanthemum Parthenium (Feverfew) Extract</i>  |
| 3261BIOBG  | FO TI ROOT IN BIOBG              | <i>Polygonum Multiflorum Cured Root Extract</i>   |
| 3269BIOBG  | GARCINIA FRUIT IN BIOBG*         | <i>Garcinia Cambogia Fruit Extract</i>  |
| 3262BIOBG  | GARLIC BULB IN BIOBG             | <i>Allium Sativum (Garlic) Bulb Extract</i>   |
| 3263BIOBG  | GENTIAN ROOT IN BIOBG            | <i>Gentiana Lutea Root Extract</i>  |
| 3264BIOBG  | GINGER ROOT IN BIOBG             | <i>Zingiber Officinale (Ginger) Root Extract</i>  |
| 3059BIOBG  | GINKGO LEAF IN BIOBG             | <i>Ginkgo Biloba Leaf Extract</i>   |
| 3265CBIOBG | GINSENG, AMERICAN ROOT IN BIOBG  | <i>Panax Quinquefolium Root Extract</i>   |
| 3268BIOBG  | GOLDENSEAL ROOT IN BIOBG         | <i>Hydrastis Canadensis (Goldenseal) Root Extract</i>   |

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|------------|--------------------------------|---|
| 3350BIOBG  | GOJI IN GLYCERIN*              | <i>Lycium Barbarum Fruit Extract</i>                        |
| 3424BIOBG  | GOTU KOLA IN BIOBG             | <i>Centella Asiatica Extract</i>                            |
| 3413BIOBG  | GRAPE SEED IN BIOBG*           | <i>Vitis Vinifera (Grape) Seed Extract</i>                  |
| 3199BIOBG  | GRAPEFRUIT SEED IN BIOBG*      | <i>Citrus Paradisi (Grapefruit) Seed Extract</i>            |
| 3345BIOBG  | GREEN TEA LEAF IN BIOBG        | <i>Camellia Sinensis Leaf Extract</i>                       |
| 3346BIOBG  | GUARANA SEED IN BIOBG*         | <i>Paullinia Cupana Seed Extract</i>                        |
| 3320BIOBG  | GYMNEMA LEAF IN BIOBG          | <i>Gymnema Sylvestre Leaf Extract</i>                       |
| 3270BIOBG  | HAWTHORN BERRY IN BIOBG        | <i>Crataegus Monogyna Fruit Extract</i>                     |
| 3629BIOBG  | HIBISCUS FLOWER IN BIOBG       | <i>Hibiscus Sabdariffa Flower Extract</i>                   |
| 3362BIOBG  | HOLY BASIL LEAF IN BIOBG       | <i>Ocimum Sanctum Leaf Extract</i>                          |
| 3482BIOBG  | HONEY IN BIOBG                 | <i>Honey</i>  |
| 3271BIOBG  | HOPS STROBILE IN BIOBG         | <i>Humulus Lupulus (Hops) Cone Extract</i>                  |
| 3272BIOBG  | HOREHOUND HERB IN BIOBG        | <i>Marrubium Vulgare Extract</i>                            |
| 3274BIOBG  | HORSE CHESTNUT SEED IN BIOBG   | <i>Aesculus Hippocastanum (Horse Chestnut) Seed Extract</i> |
| 3273BIOBG  | HORSETAIL HERB IN BIOBG        | <i>Equisetum Arvense Extract</i>                            |
| 3275BIOBG  | HYDRANGEA ROOT IN BIOBG        | <i>Hydrangea Arborescens Root Extract</i>                   |
| 3276BIOBG  | HYSSOP HERB IN BIOBG           | <i>Hyssopus Officinalis Flower Extract</i>                  |
| 3277BIOBG  | IRISH MOSS IN BIOBG            | <i>Chondrus Crispus Extract</i>                             |
| 3281BIOBG  | JUNIPER BERRY IN BIOBG         | <i>Juniperus Communis Fruit Extract</i>                     |
| 3281ABIOBG | KAVA KAVA ROOT IN BIOBG        | <i>Piper Methysticum Root Extract</i>                       |
| 3282BIOBG  | KELP IN BIOBG                  | <i>Ascophyllum Nodosum Extract</i>                          |
| 3283BIOBG  | KOLA NUT IN BIOBG              | <i>Cola Nitida Seed Extract</i>                             |
| 3285BIOBG  | LAVENDER FLOWER IN BIOBG       | <i>Lavandula Angustifolia (Lavender) Flower Extract</i>     |
| 3288BIOBG  | LEMON BALM HERB IN BIOBG       | <i>Melissa Officinalis Extract</i>                          |
| 3289BIOBG  | LEMON PEEL IN BIOBG*           | <i>Citrus Limon (Lemon) Peel Extract</i>                    |
| 3287BIOBG  | LEMONGRASS IN BIOBG            | <i>Cymbopogon Citratus Extract</i>                          |
| 3291BIOBG  | LICORICE ROOT IN BIOBG         | <i>Glycyrrhiza Glabra (Licorice) Root Extract</i>           |
| 3293BIOBG  | LINDEN FLOWER IN BIOBG         | <i>Tilia Europaea Flower Extract</i>                        |
| 3294BIOBG  | LOBELIA HERB IN BIOBG          | <i>Lobelia Inflata Extract</i>                              |
| 3321BIOBG  | LOMATIUM ROOT IN BIOBG         | <i>Lomatium Dissectum Root Extract</i>                      |
| 3408BIOBG  | MANGO IN BIOBG*                | <i>Mangifera Indica Fruit (Mango) Extract</i>               |
| 3445BIOBG  | MANGOSTEEN IN BIOBG*           | <i>Garcinia Mangostana Fruit Extract</i>                    |
| 3265BIOBG  | MARSHMALLOW ROOT IN BIOBG      | <i>Althaea Officinalis Root Extract</i>                     |
| 3299BIOBG  | MEADOWSWEET IN BIOBG           | <i>Spiraea Ulmaria Flower Extract</i>                       |
| 3201BIOBG  | MEXICAN ARNICA FLOWER IN BIOBG | <i>Heterotheca Inuloides Flower Extract</i>                 |
| 3338DBIOBG | MILK THISTLE SEED IN BIOBG     | <i>Silybum Marianum Seed Extract</i>                        |

\*Indicates Fruitanical Extract



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| 3301BIOBG  | MOTHERWORT HERB IN BIOBG       | <i>Leonurus Cardiac Extract</i>                      |
| 3302BIOBG  | MUIRA PUAMA ROOT IN BIOBG      | <i>Ptychopetalum Olacoides Root Extract</i>          |
| 3303BIOBG  | MULLEIN LEAF IN BIOBG          | <i>Verbascum Thapsus Leaf Extract</i>                |
| 3304BIOBG  | MYRRH GUM RESIN IN BIOBG       | <i>Commiphora Myrrha Resin</i>                       |
| 3367BIOBG  | NETTLE LEAF IN BIOBG           | <i>Urtica Dioica (Nettle) Leaf Extract</i>           |
| 3305BIOBG  | NETTLE ROOT IN BIOBG           | <i>Urtica Dioica (Nettle) Root Extract</i>           |
| 3270HBIOBG | NEUTRAL HENNA IN BIOBG         | <i>Lawsonia Inermis (Henna) Leaf Extract</i>         |
| 3504BIOBG  | NONI IN BIOBG*                 | <i>Morinda Citrifolia Fruit Extract</i>              |
| 98501BIOBG | NOPAL CACTUS IN BIOBG          | <i>Opuntia Ficus-Indica Extract</i>                  |
| 3307BIOBG  | OAT SEED IN BIOBG              | <i>Avena Sativa (Oat) Seed Extract</i>               |
| 3403BIOBG  | OLIVE LEAF IN BIOBG            | <i>Olea Europaea (Olive) Leaf Extract</i>            |
| 3309BIOBG  | ORANGE PEEL IN BIOBG*          | <i>Citrus Aurantium Dulcis (Orange) Peel Extract</i> |
| 3308ABIOBG | OREGON GRAPE ROOT IN BIOBG     | <i>Mahonia Aquifolium Root Extract</i>               |
| 3332BIOBG  | OSHA ROOT IN BIOBG             | <i>Ligusticum Porteri Root Extract</i>               |
| 3832BIOBG  | PAPAYA LEAF IN BIOBG           | <i>Carica Papaya (Papaya) Leaf Extract</i>           |
| 3311BIOBG  | PARSLEY LEAF IN BIOBG          | <i>Petroselinum Crispum (Parsley) Leaf Extract</i>   |
| 3470BIOBG  | PASSION FRUIT IN BIOBG*        | <i>Passiflora Edulis Fruit Extract</i>               |
| 3313BIOBG  | PASSIONFLOWER HERB IN BIOBG    | <i>Passiflora Incarnata Flower Extract</i>           |
| 3314ABIOBG | PAU D'ARCO INNER BARK IN BIOBG | <i>Tabebuia Impetiginosa Bark Extract</i>            |
| 3843BIOBG  | PEACH FRUIT IN BIOBG*          | <i>Prunus Persica (Peach) Fruit Extract</i>          |
| 3363BIOBG  | PEACH LEAF IN BIOBG*           | <i>Prunus Persica (Peach) Leaf Extract</i>           |
| 3314BBIOBG | PENNYROYAL HERB IN BIOBG       | <i>Mentha Pulegium Extract</i>                       |
| 3315BIOBG  | PEPPERMINT LEAF IN BIOBG       | <i>Mentha Piperita (Peppermint) Leaf Extract</i>     |
| 3316BIOBG  | PERIWINKLE HERB IN BIOBG       | <i>Vinca Minor Extract</i>                           |
| 3432BIOBG  | PINEAPPLE FRUIT IN BIOBG*      | <i>Ananas Sativus (Pineapple) Fruit Extract</i>      |
| 3319BIOBG  | PLANTAIN LEAF IN BIOBG         | <i>Plantago Major Leaf Extract</i>                   |
| 3421BIOBG  | POMEGRANATE IN BIOBG*          | <i>Punica Granatum Fruit Extract</i>                 |
| 3322BIOBG  | PRICKLY ASH BARK IN BIOBG      | <i>Zanthoxylum Americanum Extract</i>                |
| 3341BIOBG  | PROPOLIS IN BIOBG              | <i>Propolis Extract</i>                              |
| 3324BIOBG  | PUMPKIN SEED IN BIOBG          | <i>Cucurbita Pepo (Pumpkin) Seed Extract</i>         |
| 3365BIOBG  | QUILLAJA BARK IN BIOBG         | <i>Quillaja Saponaria Bark Extract</i>               |
| 3326BIOBG  | RED CLOVER TOPS IN BIOBG       | <i>Trifolium Pratense (Clover) Flower Extract</i>    |
| 3327BIOBG  | RED RASPBERRY LEAF IN BIOBG*   | <i>Rubus Idaeus (Raspberry) Leaf Extract</i>         |
| 3336BIOBG  | REISHI IN BIOBG                | <i>Ganoderma Lucidum (Mushroom) Extract</i>          |
| 3453BIOBG  | RHODIOLA IN BIOBG              | <i>Rhodiola Rosea Root Extract</i>                   |
| 3328BIOBG  | RHUBARB ROOT IN BIOBG          | <i>Rheum Palmatum Root Extract</i>                   |
| 3329BIOBG  | ROSE HIPS IN BIOBG             | <i>Rosa Canina Fruit Extract</i>                     |

|            |                               |  |
|------------|-------------------------------|--|
| 3330BIOBG  | ROSEMARY LEAF IN BIOBG        | <i>Rosmarinus Officinalis (Rosemary) Leaf Extract</i>  |
| 3331BIOBG  | SAGE LEAF IN BIOBG            | <i>Salvia Officinalis (Sage) Leaf Extract</i>          |
| 3333BIOBG  | SARSAPARILLA ROOT IN BIOBG    | <i>Smilax Aristolochiaefolia Root Extract</i>          |
| 3334BIOBG  | SAW PALMETTO BERRY IN BIOBG   | <i>Serenoa Serrulata Fruit Extract</i>                 |
| 3336ABIOBG | SCHIZANDRA BERRY IN BIOBG     | <i>Schizandra Chinensis Berry Extract</i>              |
| 3338ABIOBG | SENNA LEAF IN BIOBG           | <i>Cassia Senna Leaf Extract</i>                       |
| 3338BIOBG  | SHIITAKE IN BIOBG             | <i>Lentinus Edodes Extract</i>                         |
| 3335BIOBG  | Skullcap HERB IN BIOBG        | <i>Scutellaria Lateriflora Extract</i>                 |
| 3337BIOBG  | SLIPPERY ELM BARK IN BIOBG    | <i>Ulmus Fulva Bark Extract</i>                        |
| 3342BIOBG  | SPINACH LEAF IN BIOBG         | <i>Spinacia Oleracea (Spinach) Leaf Extract</i>        |
| 3837BIOBG  | SPIRULINA IN BIOBG            | <i>Arthrospira Platensis Extract</i>                   |
| 3909BIOBG  | ST. JOHN'S WORT HERB IN BIOBG | <i>Hypericum Perforatum Flower/Leaf/Stem Extract</i>   |
| 3495BIOBG  | STEVIA IN BIOBG               | <i>Stevia Rebaudiana Extract</i>                       |
| 3407BIOBG  | STRAWBERRY IN BIOBG*          | <i>Fragaria Ananassa (Strawberry) Fruit Extract</i>    |
| 3339BIOBG  | SUMA ROOT IN BIOBG            | <i>Pfaffia Paniculata Root Extract</i>                 |
| 3423BIOBG  | TAMARIND IN BIOBG             | <i>Tamarindus Indica Fruit Extract</i>                 |
| 3344BIOBG  | THYME HERB IN BIOBG           | <i>Thymus Vulgaris (Thyme) Extract</i>                 |
| 3418BIOBG  | UVA URSI LEAF IN BIOBG        | <i>Arctostaphylos Uva Ursi Leaf Extract</i>            |
| 3348BIOBG  | VALERIAN ROOT IN BIOBG        | <i>Valeriana Officinalis Root Extract</i>              |
| 3340BIOBG  | VITEX BERRY IN BIOBG          | <i>Vitex Agnus Castus Extract</i>                      |
| 3306BIOBG  | WHITE OAK BARK IN BIOBG       | <i>Quercus Alba Bark Extract</i>                       |
| 3422BIOBG  | WHITE TEA LEAF IN BIOBG       | <i>Camellia Sinensis Leaf Extract</i>                  |
| 3325BIOBG  | WHITE WILLOW BARK IN BIOBG    | <i>Salix Alba (Willow) Bark Extract</i>                |
| 3351BIOBG  | WILD CHERRY BARK IN BIOBG     | <i>Prunus Serotina (Wild Cherry) Bark Extract</i>      |
| 3355BIOBG  | WILD YAM ROOT IN BIOBG        | <i>Dioscorea Villosa (Wild Yam) Root Extract</i>       |
| 3356BIOBG  | WITCH HAZEL LEAF IN BIOBG     | <i>Hamamelis Virginiana (Witch Hazel) Leaf Extract</i> |
| 3358BIOBG  | YARROW FLOWERS IN BIOBG       | <i>Achillea Millefolium Flower Extract</i>             |
| 3359BIOBG  | YELLOWDOCK ROOT IN BIOBG      | <i>Rumex Crispus Root Extract</i>                      |
| 3956BIOBG  | YERBA MATE LEAF IN BIOBG      | <i>Ilex Paraguariensis Leaf Extract</i>                |
| 3359ABIOBG | YOHIMBE IN BIOBG              | <i>Corynanthe Yohimbe Bark Extract</i>                 |
| 3360BIOBG  | YUCCA IN BIOBG                | <i>Yucca Schidigera Stem Extract</i>                   |

**Custom Extract Blends Available Upon Request**

**Contact an Associate for Details**



# ZEA-BOTANICALS <sup>®</sup>

## NATURALLY DERIVED PLANT EXTRACTS

### WITH ZEMEA <sup>®</sup>



Bio-Botanica<sup>®</sup> & DuPont Tate & Lyle Bio Products Company LLC partner in creating a new line of botanical extracts called Zea Botanicals<sup>™</sup>. Bio-Botanica<sup>®</sup> Inc. utilizes its proprietary Bio-Chelation<sup>®</sup> process to manufacture botanical extracts in combination with Zemea<sup>®</sup> for natural personal care and cosmetic applications. You will have the benefits of Bio-Botanica<sup>®</sup>'s 43 years of botanical

extract manufacturing experience with the new technology of Zemea<sup>®</sup>.

Zemea<sup>®</sup> is a natural and highly pure colorless glycol, derived from a sustainable and renewable corn sugar fermentation process. Zemea<sup>®</sup> propane diol is the perfect glycol solution for formulations where non-petroleum based ingredients are desired.

With its skin-friendly performance, including no irritation, enhanced moisturization and excellent aesthetics, Zemea<sup>®</sup> is seeing rapid popularity. Derived from corn sugar fermentation, Zemea<sup>®</sup> replaces petroleum-based glycols or glycerin in many personal care formulations. Environmental sustainability benefits include significantly lower greenhouse gas emissions and lower energy consumption in its production (based on LCA data).



<sup>1</sup>Zemea<sup>®</sup> is a registered trademark of DuPont Tate & Lyle Bio Products.

| Code    | ZEA-BOTANICALS <sup>®</sup>                            | INCI NAME - (Propanediol and Water)                     |
|---------|--|---|
| 3437ZB  | ACAI ZEA-BOTANICALS <sup>®</sup>                       | <i>Euterpe Oleracea</i> Fruit Extract                   |
| 3203ZB  | ALFALFA LEAF ZEA-BOTANICALS <sup>®</sup>               | <i>Medicago Sativa</i> (Alfalfa) Leaf Extract           |
| 3160ZB  | ALOE VERA GEL ZEA-BOTANICALS <sup>®</sup>              | <i>Aloe Barbadosensis</i> Leaf Extract                  |
| 3204AZB | ANGELICA ROOT ZEA-BOTANICALS <sup>®</sup>              | <i>Angelica Archangelica</i> Root Extract               |
| 3512ZB  | APRICOT ZEA-BOTANICALS <sup>®</sup>                    | <i>Prunus Armenica</i> (Apricot) Fruit Extract          |
| 3347ZB  | ARTICHOKE LEAF ZEA-BOTANICALS <sup>®</sup>             | <i>Cynara Scolymus</i> (Artichoke) Leaf Extract         |
| 3168ZB  | ASHWAGANDHA ROOT ZEA-BOTANICALS <sup>®</sup>           | <i>Withania Somnifera</i> Root Extract                  |
| 3310ZB  | ASTRAGALUS ROOT ZEA-BOTANICALS <sup>®</sup>            | <i>Astragalus Membranaceus</i> Root Extract             |
| 3995ZB  | AVOCADO ZEA-BOTANICALS <sup>**</sup>                   | <i>Persea Gratissima</i> (Avocado) Fruit Extract        |
| 3208ZB  | BARBERRY ROOT ZEA-BOTANICALS <sup>®</sup>              | <i>Berberis Vulgaris</i> Root Extract                   |
| 3209AZB | BAYBERRY BARK ZEA-BOTANICALS <sup>®</sup>              | <i>Myrica Cerifera</i> (Bayberry) Bark Extract          |
| 3209ZB  | BEE POLLEN GRANULES ZEA-BOTANICALS <sup>®</sup>        | Pollen Extract  |
| 3210CZB | BILBERRY ZEA-BOTANICALS <sup>®</sup>                   | <i>Vaccinium Myrtillus</i> Fruit Extract                |
| 3210ZB  | BIRCH LEAF ZEA-BOTANICALS <sup>®</sup>                 | <i>Betula Alba</i> Leaf Extract                         |
| 3211ZB  | BLACK COHOSH ROOT ZEA-BOTANICALS <sup>®</sup>          | <i>Cimicifuga Racemosa</i> Root Extract                 |
| 3212ZB  | BLACK WALNUT HULLS ZEA-BOTANICALS <sup>®</sup>         | <i>Juglans Nigra</i> (Black Walnut) Shell Extract       |
| 3213ZB  | BLADDERWRACK FROND ZEA-BOTANICALS <sup>®</sup>         | <i>Fucus Vesiculosus</i> Extract                        |
| 3214ZB  | BLESSED THISTLE HERB ZEA-BOTANICALS <sup>®</sup>       | <i>Carbenia Benedicta</i> Extract                       |
| 3447ZB  | BLUEBERRY EXTRACT ZEA-BOTANICALS <sup>**</sup>         | <i>Vaccinium Corymbosum</i> (Blueberry) Fruit Extract   |
| 3215ZB  | BLUEBERRY LEAF ZEA-BOTANICALS <sup>®</sup>             | <i>Vaccinium Angustifolium</i> (Blueberry) Leaf Extract |
| 3220ZB  | BONESET HERB ZEA-BOTANICALS <sup>®</sup>               | <i>Eupatorium Purpureum</i> Flower/Leaf/Stem Extract    |
| 3417ZB  | BOSWELLIA ZEA-BOTANICALS <sup>®</sup>                  | <i>Boswellia Serrata</i> Extract                        |
| 3312ZB  | BUPLEURUM ROOT ZEA-BOTANICALS <sup>®</sup>             | <i>Bupleurum Chinese</i> Root Extract                   |
| 3222ZB  | BURDOCK ROOT ZEA-BOTANICALS <sup>®</sup>               | <i>Arctium Lappa</i> Root Extract                       |
| 3223ZB  | CACTUS GRANDIFLORUS FLOWER ZEA-BOTANICALS <sup>®</sup> | <i>Cereus Grandiflorus</i> (Cactus) Flower Extract      |
| 3224ZB  | CALENDULA FLOWER ZEA-BOTANICALS <sup>®</sup>           | <i>Calendula Officinalis</i> Flower Extract             |
| 3225ZB  | CAPSICUM ZEA-BOTANICALS <sup>®</sup>                   | <i>Capsicum Annuum</i> Fruit Extract                    |
| 3452ZB  | CARROT EXTRACT ZEA-BOTANICALS <sup>®</sup>             | <i>Daucus Carota Sativa</i> (Carrot) Root Extract       |
| 3596ZB  | CASCARA SAGRADA BARK ZEA-BOTANICALS <sup>®</sup>       | <i>Rhamnus Purshiana</i> Bark Extract                   |
| 9945AZB | CAT'S CLAW BARK ZEA-BOTANICALS <sup>®</sup>            | <i>Uncaria Tomentosa</i> Bark Extract                   |
| 3227BZB | CATNIP HERB ZEA-BOTANICALS <sup>®</sup>                | <i>Nepeta Cataria</i> Extract                           |
| 3228ZB  | CELERY SEED ZEA-BOTANICALS <sup>®</sup>                | <i>Apium Graveolens</i> (Celery) Seed Extract           |
| 3230ZB  | CHAMOMILE FLOWER ZEA-BOTANICALS <sup>®</sup>           | <i>Chamomilla Recutita</i> (Matricaria) Flower Extract  |
| 3232ZB  | CHAPARRAL HERB ZEA-BOTANICALS <sup>®</sup>             | <i>Larrea Divaricata</i> Extract                        |



|         |   |   |
|---------|---|---|
| 3234ZB  | CHICKWEED HERB ZEA-BOTANICALS*          | <i>Stellaria Media (Chickweed) Extract</i>  |
| 3235ZB  | CINNAMON BARK ZEA-BOTANICALS*           | <i>Cinnamomum Cassia Bark Extract</i>   |
| 3236AZB | CLEAVERS HERB ZEA-BOTANICALS*           | <i>Galium Aparine Extract</i>   |
| 3314ZB  | CODONOPSIS ROOT ZEA-BOTANICALS*         | <i>Codonopsis Lanceolata Root Extract</i>   |
| 3172ZB  | COFFEE SEED ZEA-BOTANICALS**            | <i>Coffea Arabica (Coffee) Seed Extract</i>   |
| 3236ZB  | COLTSFOOT LEAF ZEA-BOTANICALS*          | <i>Tussilago Farfara (Coltsfoot) Leaf Extract</i>   |
| 3237ZB  | COMFREY LEAF ZEA-BOTANICALS*            | <i>Symphytum Officinale Leaf Extract</i>  |
| 3238ZB  | COMFREY ROOT ZEA-BOTANICALS*            | <i>Symphytum Officinale Root Extract</i>  |
| 3241ZB  | CORN FLOWER ZEA-BOTANICALS*             | <i>Centaurea Cyanus Flower Extract</i>  |
| 3242ZB  | CORNSILK ZEA-BOTANICALS*                | <i>Zea Mays (Corn) Silk Extract</i>   |
| 3243ZB  | COUCHGRASS RHIZOME ZEA-BOTANICALS*      | <i>Agropyron Repens Root Extract</i>  |
| 3244CZB | CRANBERRY ZEA-BOTANICALS*               | <i>Vaccinium Macrocarpon (Cranberry) Fruit Extract</i>  |
| 3245ZB  | CUCUMBER ZEA-BOTANICALS**               | <i>Cucumis Sativus (Cucumber) Fruit Extract</i>   |
| 3246ZB  | DAMIANA LEAF ZEA-BOTANICALS*            | <i>Turnera Diffusa Leaf Extract</i>   |
| 3248ZB  | DANDELION ROOT ZEA-BOTANICALS*          | <i>Taraxacum Officinale (Dandelion) Root Extract</i>  |
| 3249ZB  | DEVIL'S CLAW ROOT ZEA-BOTANICALS*       | <i>Harpagophytum Procumbens Root Extract</i>  |
| 3251ZB  | DONG QUAI ROOT ZEA-BOTANICALS*          | <i>Angelica Polymorpha Sinensis Root Extract</i>  |
| 3252ZB  | ECHINACEA ZEA-BOTANICALS*               | <i>Echinacea Angustifolia Root / Echinacea Purpurea Extract Root Extract / Echinacea Ppurpurea Flower/Leaf/Stem Extract</i> |
| 3253ZB  | ELDER FLOWER ZEA-BOTANICALS*            | <i>Sambucus Nigra Flower Extract</i>  |
| 3254ZB  | ELDERBERRY ZEA-BOTANICALS**             | <i>Sambucus Nigra Fruit Extract</i>   |
| 3255ZB  | ELECAMPANE ROOT ZEA-BOTANICALS*         | <i>Inula Helenium Extract</i>   |
| 3266ZB  | ELEUTHERO ROOT ZEA-BOTANICALS*          | <i>Acanthopanax Senticosus (Eleuthero) Root Extract</i>   |
| 3256ZB  | EVENING PRIMROSE FLOWER ZEA-BOTANICALS* | <i>Oenothera Biennis (Evening Primrose) Flower Extract</i>  |
| 3257ZB  | EYEBRIGHT HERB ZEA-BOTANICALS*          | <i>Euphrasia Officinalis Extract</i>  |
| 3259ZB  | FENNEL SEED ZEA-BOTANICALS*             | <i>Foeniculum Vulgare (Fennel) Seed Extract</i>   |
| 3260ZB  | FENUGREEK SEED ZEA-BOTANICALS*          | <i>Trigonella Foenum-Graecum Seed Extract</i>   |
| 3260AZB | FEVERFEW HERB ZEA-BOTANICALS*           | <i>Chrysanthemum Parthenium (Feverfew) Extract</i>  |
| 3261ZB  | FO TI ROOT ZEA-BOTANICALS*              | <i>Polygonum Multiflorum Cured Root Extract</i>   |
| 3269ZB  | GARCINIA FRUIT ZEA-BOTANICALS**         | <i>Garcinia Cambogia Fruit Extract</i>  |
| 3262ZB  | GARLIC BULB ZEA-BOTANICALS*             | <i>Allium Sativum (Garlic) Bulb Extract</i>   |
| 3263ZB  | GENTIAN ROOT ZEA-BOTANICALS*            | <i>Gentiana Lutea Root Extract</i>  |
| 3264ZB  | GINGER ROOT ZEA-BOTANICALS*             | <i>Zingiber Officinale (Ginger) Root Extract</i>  |
| 3059ZB  | GINKGO LEAF ZEA-BOTANICALS*             | <i>Ginkgo Biloba Leaf Extract</i>   |
| 3265CZB | GINSENG, AMERICAN ROOT ZEA-BOTANICALS*  | <i>Panax Quinquefolium Root Extract</i>   |
| 3350ZB  | GOJI ZEA-BOTANICALS*                    | <i>Lycium Barbarum Fruit Extract</i>  |

|         |                                       |   |
|---------|---------------------------------------|---|
| 3268ZB  | GOLDENSEAL ROOT ZEA-BOTANICALS*       | <i>Hydrastis Canadensis (Goldenseal) Root Extract</i>       |
| 3424ZB  | GOTU KOLA ZEA-BOTANICALS*             | <i>Centella Asiatica Extract</i>                            |
| 3413ZB  | GRAPE SEED ZEA-BOTANICALS**           | <i>Vitis Vinifera (Grape) Seed Extract</i>                  |
| 3199ZB  | GRAPEFRUIT SEED ZEA-BOTANICALS**      | <i>Citrus Paradisi (Grapefruit) Seed Extract</i>            |
| 3345ZB  | GREEN TEA LEAF ZEA-BOTANICALS*        | <i>Camellia Sinensis Leaf Extract</i>                       |
| 3346ZB  | GUARANA SEED ZEA-BOTANICALS**         | <i>Paullinia Cupana Seed Extract</i>                        |
| 3320ZB  | GYMNEMA LEAF ZEA-BOTANICALS*          | <i>Gymnema Sylvestre Leaf Extract</i>                       |
| 3270ZB  | HAWTHORN BERRY ZEA-BOTANICALS*        | <i>Crataegus Monogyna Fruit Extract</i>                     |
| 3629ZB  | HIBISCUS FLOWER ZEA-BOTANICALS*       | <i>Hibiscus Sadderiffa Flower Extract</i>                   |
| 3362ZB  | HOLY BASIL LEAF ZEA-BOTANICALS*       | <i>Ocimum Sanctum Leaf Extract</i>                          |
| 3482ZB  | HONEY ZEA-BOTANICALS*                 | <i>Honey</i>  |
| 3271ZB  | HOPS STROBILE ZEA-BOTANICALS*         | <i>Humulus Lupulus (Hops) Cone Extract</i>                  |
| 3272ZB  | HOREHOUND HERB ZEA-BOTANICALS*        | <i>Marrubium Vulgare Extract</i>                            |
| 3274ZB  | HORSE CHESTNUT SEED ZEA-BOTANICALS*   | <i>Aesculus Hippocastanum (Horse Chestnut) Seed Extract</i> |
| 3273ZB  | HORSETAIL HERB ZEA-BOTANICALS*        | <i>Equisetum Arvense Extract</i>                            |
| 3275ZB  | HYDRANGEA ROOT ZEA-BOTANICALS*        | <i>Hydrangea Arborescens Root Extract</i>                   |
| 3276ZB  | HYSSOP HERB ZEA-BOTANICALS*           | <i>Hyssopus Officinalis Flower Extract</i>                  |
| 3277ZB  | IRISH MOSS ZEA-BOTANICALS*            | <i>Chondrus Crispus Extract</i>                             |
| 3281ZB  | JUNIPER BERRY ZEA-BOTANICALS*         | <i>Juniperus Communis Fruit Extract</i>                     |
| 3281AZB | KAVA KAVA ROOT ZEA-BOTANICALS*        | <i>Piper Methysticum Root Extract</i>                       |
| 3282ZB  | KELP ZEA-BOTANICALS*                  | <i>Ascophyllum Nodosum Extract</i>                          |
| 3283ZB  | KOLA NUT ZEA-BOTANICALS*              | <i>Cola Nitida Seed Extract</i>                             |
| 3285ZB  | LAVENDER FLOWER ZEA-BOTANICALS*       | <i>Lavandula Angustifolia (Lavender) Flower Extract</i>     |
| 3288ZB  | LEMON BALM HERB ZEA-BOTANICALS*       | <i>Melissa Officinalis Extract</i>                          |
| 3289ZB  | LEMON PEEL ZEA-BOTANICALS**           | <i>Citrus Limon (Lemon) Peel Extract</i>                    |
| 3287ZB  | LEMONGRASS ZEA-BOTANICALS*            | <i>Cymbopogon Citratus Extract</i>                          |
| 3291ZB  | LICORICE ROOT ZEA-BOTANICALS*         | <i>Glycyrrhiza Glabra (Licorice) Root Extract</i>           |
| 3293ZB  | LINDEN FLOWER ZEA-BOTANICALS*         | <i>Tilia Europaea Flower Extract</i>                        |
| 3294ZB  | LOBELIA HERB ZEA-BOTANICALS*          | <i>Lobelia Inflata Extract</i>                              |
| 3321ZB  | LOMATIUM ROOT ZEA-BOTANICALS*         | <i>Lomatium Dissectum Root Extract</i>                      |
| 3408ZB  | MANGO ZEA-BOTANICALS**                | <i>Mangifera Indica Fruit (Mango) Extract</i>               |
| 3445ZB  | MANGOSTEEN ZEA-BOTANICALS**           | <i>Garcinia Mangostana Fruit Extract</i>                    |
| 3265ZB  | MARSHMALLOW ROOT ZEA-BOTANICALS*      | <i>Althaea Officinalis Root Extract</i>                     |
| 3299ZB  | MEADOWSWEET ZEA-BOTANICALS*           | <i>Spiraea Ulmaria Flower Extract</i>                       |
| 3201ZB  | MEXICAN ARNICA FLOWER ZEA-BOTANICALS* | <i>Heterotheca Inuloides Flower Extract</i>                 |
| 3338DZB | MILK THISTLE SEED ZEA-BOTANICALS*     | <i>Silybum Marianum Seed Extract</i>                        |

\*Indicates Fruitarianal Extract



|         |                                       |   |
|---------|---------------------------------------|---|
| 3301ZB  | MOTHERWORT HERB ZEA-BOTANICALS*       | <i>Leonurus Cardiacae Extract</i>                     |
| 3302ZB  | MUIRA PUAMA ROOT ZEA-BOTANICALS*      | <i>Ptychopetalum Olacoides Root Extract</i>           |
| 3303ZB  | MULLEIN LEAF ZEA-BOTANICALS*          | <i>Verbascum Thapsus Leaf Extract</i>                 |
| 3304ZB  | MYRRH GUM RESIN ZEA-BOTANICALS*       | <i>Commiphora Myrrha Resin</i>                        |
| 3367ZB  | NETTLE LEAF ZEA-BOTANICALS*           | <i>Urtica Dioica (Nettle) Leaf Extract</i>            |
| 3305ZB  | NETTLE ROOT ZEA-BOTANICALS*           | <i>Urtica Dioica (Nettle) Root Extract</i>            |
| 3270HZB | NEUTRAL HENNA ZEA-BOTANICALS*         | <i>Lawsonia Inermis (Henna) Leaf Extract</i>          |
| 3504ZB  | NONI ZEA-BOTANICALS**                 | <i>Morinda Citrifolia Fruit Extract</i>               |
| 98501ZB | NOPAL CACTUS ZEA-BOTANICALS*          | <i>Opuntia Ficus-Indica Extract</i>                   |
| 3307ZB  | OAT SEED ZEA-BOTANICALS*              | <i>Avena Sativa (Oat) Seed Extract</i>                |
| 3403ZB  | OLIVE LEAF ZEA-BOTANICALS*            | <i>Olea Europaea (Olive) Leaf Extract</i>             |
| 3309ZB  | ORANGE PEEL ZEA-BOTANICALS**          | <i>Citrus Aurantium Dulcis (Orange) Peel Extract</i>  |
| 3308AZB | OREGON GRAPE ROOT ZEA-BOTANICALS*     | <i>Mahonia Aquifolium Root Extract</i>                |
| 3332ZB  | OSHA ROOT ZEA-BOTANICALS*             | <i>Ligusticum Porteri Root Extract</i>                |
| 3832ZB  | PAPAYA LEAF ZEA-BOTANICALS*           | <i>Carica Papaya (Papaya) Leaf Extract</i>            |
| 3311ZB  | PARSLEY LEAF ZEA-BOTANICALS*          | <i>Petroselinum Crispum (Parsley) Leaf Extract</i>    |
| 3470ZB  | PASSION FRUIT ZEA-BOTANICALS**        | <i>Passiflora Edulis Fruit Extract</i>                |
| 3313ZB  | PASSIONFLOWER HERB ZEA-BOTANICALS*    | <i>Passiflora Incarnata Flower Extract</i>            |
| 3314AZB | PAU D'ARCO INNER BARK ZEA-BOTANICALS* | <i>Tabebuia Impetiginosa Bark Extract</i>             |
| 3843ZB  | PEACH FRUIT ZEA-BOTANICALS**          | <i>Prunus Persica (Peach) Fruit Extract</i>           |
| 3363ZB  | PEACH LEAF ZEA-BOTANICALS**           | <i>Prunus Persica (Peach) Leaf Extract</i>            |
| 3314BZB | PENNYROYAL HERB ZEA-BOTANICALS*       | <i>Mentha Pulegium Extract</i>                        |
| 3315ZB  | PEPPERMINT LEAF ZEA-BOTANICALS*       | <i>Mentha Piperita (Peppermint) Leaf Extract</i>      |
| 3316ZB  | PERIWINKLE HERB ZEA-BOTANICALS*       | <i>Vinca Minor Extract</i>                            |
| 3432ZB  | PINEAPPLE FRUIT ZEA-BOTANICALS**      | <i>Ananas Sativus (Pineapple) Fruit Extract</i>       |
| 3319ZB  | PLANTAIN LEAF ZEA-BOTANICALS*         | <i>Plantago Major Leaf Extract</i>                    |
| 3421ZB  | POMEGRANATE ZEA-BOTANICALS**          | <i>Punica Granatum Fruit Extract</i>                  |
| 3322ZB  | PRICKLY ASH BARK ZEA-BOTANICALS*      | <i>Zanthoxylum Americanum Extract</i>                 |
| 3341ZB  | PROPOLIS ZEA-BOTANICALS*              | <i>Propolis Extract</i>                               |
| 3324ZB  | PUMPKIN SEED ZEA-BOTANICALS*          | <i>Cucurbita Pepo (Pumpkin) Seed Extract</i>          |
| 3365ZB  | QUILLAJA BARK ZEA-BOTANICALS*         | <i>Quillaja Saponaria Bark Extract</i>                |
| 3326ZB  | RED CLOVER TOPS ZEA-BOTANICALS*       | <i>Trifolium Pratense (Clover) Flower Extract</i>     |
| 3327ZB  | RED RASPBERRY LEAF ZEA-BOTANICALS**   | <i>Rubus Idaeus (Raspberry) Leaf Extract</i>          |
| 3336ZB  | REISHI ZEA-BOTANICALS*                | <i>Ganoderma Lucidum (Mushroom) Extract</i>           |
| 3453ZB  | RHODIOLA ZEA-BOTANICALS*              | <i>Rhodiola Rosea Root Extract</i>                    |
| 3328ZB  | RHUBARB ROOT ZEA-BOTANICALS*          | <i>Rheum Palmatum Root Extract</i>                    |
| 3329ZB  | ROSE HIPS ZEA-BOTANICALS*             | <i>Rosa Canina Fruit Extract</i>                      |
| 3330ZB  | ROSEMARY LEAF ZEA-BOTANICALS*         | <i>Rosmarinus Officinalis (Rosemary) Leaf Extract</i> |
| 3331ZB  | SAGE LEAF ZEA-BOTANICALS*             | <i>Salvia Officinalis (Sage) Leaf Extract</i>         |

|         |                                      |  |
|---------|--------------------------------------|--|
| 3333ZB  | SARSAPARILLA ROOT ZEA-BOTANICALS*    | <i>Smilax Aristolochiaefolia Root Extract</i>          |
| 3334ZB  | SAW PALMETTO BERRY ZEA-BOTANICALS*   | <i>Serenoa Serrulata Fruit Extract</i>                 |
| 3336AZB | SCHIZANDRA BERRY ZEA-BOTANICALS*     | <i>Schizandra Chinensis Berry Extract</i>              |
| 3338AZB | SENNA LEAF ZEA-BOTANICALS*           | <i>Cassia Senna Leaf Extract</i>                       |
| 3338ZB  | SHIITAKE ZEA-BOTANICALS*             | <i>Lentinus Edodes Extract</i>                         |
| 3335ZB  | Skullcap HERB ZEA-BOTANICALS*        | <i>Scutellaria Lateriflora Extract</i>                 |
| 3337ZB  | SLIPPERY ELM BARK ZEA-BOTANICALS*    | <i>Ulmus Fulva Bark Extract</i>                        |
| 3342ZB  | SPINACH LEAF ZEA-BOTANICALS*         | <i>Spinacia Oleracea (Spinach) Leaf Extract</i>        |
| 3837ZB  | SPIRULINA ZEA-BOTANICALS*            | <i>Arthrospira Platensis Extract</i>                   |
| 3909ZB  | ST. JOHN'S WORT HERB ZEA-BOTANICALS* | <i>Hypericum Perforatum Flower/Leaf/Stem Extract</i>   |
| 3495ZB  | STEVIA ZEA-BOTANICALS*               | <i>Stevia Rebaudiana Extract</i>                       |
| 3407ZB  | STRAWBERRY ZEA-BOTANICALS**          | <i>Fragaria Ananassa (Strawberry) Fruit Extract</i>    |
| 3339ZB  | SUMA ROOT ZEA-BOTANICALS*            | <i>Pfaffia Paniculata Root Extract</i>                 |
| 3423ZB  | TAMARIND ZEA-BOTANICALS*             | <i>Tamarindus Indica Fruit Extract</i>                 |
| 3344ZB  | THYME HERB ZEA-BOTANICALS*           | <i>Thymus Vulgaris (Thyme) Extract</i>                 |
| 3418ZB  | UVA URSI LEAF ZEA-BOTANICALS*        | <i>Arctostaphylos Uva Ursi Leaf Extract</i>            |
| 3348ZB  | VALERIAN ROOT ZEA-BOTANICALS*        | <i>Valeriana Officinalis Root Extract</i>              |
| 3340ZB  | VITEX BERRY ZEA-BOTANICALS*          | <i>Vitex Agnus Castus Extract</i>                      |
| 3306ZB  | WHITE OAK BARK ZEA-BOTANICALS*       | <i>Quercus Alba Bark Extract</i>                       |
| 3422ZB  | WHITE TEA LEAF ZEA-BOTANICALS*       | <i>Camellia Sinensis Leaf Extract</i>                  |
| 3325ZB  | WHITE WILLOW BARK ZEA-BOTANICALS*    | <i>Salix Alba (Willow) Bark Extract</i>                |
| 3351ZB  | WILD CHERRY BARK ZEA-BOTANICALS*     | <i>Prunus Serotina (Wild Cherry) Bark Extract</i>      |
| 3355ZB  | WILD YAM ROOT ZEA-BOTANICALS*        | <i>Dioscorea Villosa (Wild Yam) Root Extract</i>       |
| 3356ZB  | WITCH HAZEL LEAF ZEA-BOTANICALS*     | <i>Hamamelis Virginiana (Witch Hazel) Leaf Extract</i> |
| 3358ZB  | YARROW FLOWERS ZEA-BOTANICALS*       | <i>Achillea Millefolium Flower Extract</i>             |
| 3359ZB  | YELLOWDOCK ROOT ZEA-BOTANICALS*      | <i>Rumex Crispus Root Extract</i>                      |
| 3956ZB  | YERBA MATE LEAF ZEA-BOTANICALS*      | <i>Ilex Paraguariensis Leaf Extract</i>                |
| 3359AZB | YOHIMBE ZEA-BOTANICALS*              | <i>Corynanthe Yohimbe Bark Extract</i>                 |
| 3360ZB  | YUCCA ZEA-BOTANICALS*                | <i>Yucca Schidigera Stem Extract</i>                   |

**Custom Extract Blends Available Upon Request**

**Contact an Associate for Details**

**PACKAGE SIZES:**

We understand that you may only need a small pail  
or you may need 200 kilograms.

That is what we offer:

**4 kilogram pail , 10 kilogram pail  
19 kilogram pail, 200 kilogram drums**

**Custom Orders**

\*Indicates Fruitanical Extract



# GLYCERIN

Glycerin, present in all natural lipids, is derived from natural substances by hydrolysis of fats and by fermentation of sugars. As a skin friendly humectant, one of glycerin's benefits is that it is a skin-identical ingredient, meaning it is a substance found naturally in skin. In that respect it is one of the many substances in skin that help maintain the outer barrier and prevent dryness or scaling.



This clear, viscous liquid is valued for its humectant and solvent characteristics. As a solvent, Glycerin can help deliver an extract or active ingredient. As a humectant it can increase the solubility of the active ingredient, making it more easily absorbed by the skin. Our Glycerin is vegetable derived.

| CODE    | PRODUCT NAME                           | INCI NAME (Glycerin and Water)                          |
|---------|--|---|
| 3437GL  | ACAI IN GLYCERIN                       | <i>Euterpe Oleracea Fruit Extract</i>                   |
| 3203GL  | ALFALFA LEAF IN GLYCERIN               | <i>Medicago Sativa (Alfalfa) Leaf Extract</i>           |
| 3160GL  | ALOE VERA GEL IN GLYCERIN              | <i>Aloe Barbadensis Leaf Extract</i>                    |
| 3204AGL | ANGELICA ROOT IN GLYCERIN              | <i>Angelica Archangelica Root Extract</i>               |
| 3512GL  | APRICOT IN GLYCERIN                    | <i>Prunus Armeniaca (Apricot) Fruit Extract</i>         |
| 3347GL  | ARTICHOKE LEAF IN GLYCERIN             | <i>Cynara Scolymus (Artichoke) Leaf Extract</i>         |
| 3168GL  | ASHWAGANDHA ROOT IN GLYCERIN           | <i>Withania Somnifera Root Extract</i>                  |
| 3310GL  | ASTRAGALUS ROOT IN GLYCERIN            | <i>Astragalus Membranaceus Root Extract</i>             |
| 3995GL  | AVOCADO IN GLYCERIN*                   | <i>Persea Grattissima (Avocado) Fruit Extract</i>       |
| 3208GL  | BARBERRY ROOT IN GLYCERIN              | <i>Berberis Vulgaris Root Extract</i>                   |
| 3209AGL | BAYBERRY BARK IN GLYCERIN              | <i>Myrica Cerifera (Bayberry) Bark Extract</i>          |
| 3209GL  | BEE POLLEN GRANULES IN GLYCERIN        | <i>Pollen Extract</i>                                   |
| 3210CGL | BILBERRY IN GLYCERIN                   | <i>Vaccinium Myrtillus Fruit Extract</i>                |
| 3210GL  | BIRCH LEAF IN GLYCERIN                 | <i>Betula Alba Leaf Extract</i>                         |
| 3211GL  | BLACK COHOSH ROOT IN GLYCERIN          | <i>Cimicifuga Racemosa Root Extract</i>                 |
| 3212GL  | BLACK WALNUT HULLS IN GLYCERIN         | <i>Juglans Nigra (Black Walnut) Shell Extract</i>       |
| 3213GL  | BLADDERWRACK FROND IN GLYCERIN         | <i>Fucus Vesiculosus Extract</i>                        |
| 3214GL  | BLESSED THISTLE HERB IN GLYCERIN       | <i>Carbenia Benedicta Extract</i>                       |
| 3447GL  | BLUEBERRY EXTRACT IN GLYCERIN*         | <i>Vaccinium Corymbosum (Blueberry) Fruit Extract</i>   |
| 3215GL  | BLUEBERRY LEAF IN GLYCERIN             | <i>Vaccinium Angustifolium (Blueberry) Leaf Extract</i> |
| 3220GL  | BONESET HERB IN GLYCERIN               | <i>Eupatorium Purpureum Flower/Leaf/Stem Extract</i>    |
| 3417GL  | BOSWELLIA IN GLYCERIN                  | <i>Boswellia Serrata Extract</i>                        |
| 3312GL  | BUPLEURUM ROOT IN GLYCERIN             | <i>Bupleurum Chinese Root Extract</i>                   |
| 3222GL  | BURDOCK ROOT IN GLYCERIN               | <i>Arctium Lappa Root Extract</i>                       |
| 3223GL  | CACTUS GRANDIFLORUS FLOWER IN GLYCERIN | <i>Cereus Grandiflorus (Cactus) Flower Extract</i>      |
| 3224GL  | CALENDULA FLOWER IN GLYCERIN           | <i>Calendula Officinalis Flower Extract</i>             |
| 3225GL  | CAPSICUM IN GLYCERIN                   | <i>Capsicum Annuum Fruit Extract</i>                    |
| 3452GL  | CARROT EXTRACT IN GLYCERIN             | <i>Daucus Carota Sativa (Carrot) Root Extract</i>       |
| 3596GL  | CASCARA SAGRADA BARK IN GLYCERIN       | <i>Rhamnus Purshiana Bark Extract</i>                   |
| 9945AGL | CAT'S CLAW BARK IN GLYCERIN            | <i>Uncaria Tomentosa Bark Extract</i>                   |
| 3227BGL | CATNIP HERB IN GLYCERIN                | <i>Nepeta Cataria Extract</i>                           |
| 3228GL  | CELERY SEED IN GLYCERIN                | <i>Apium Graveolens (Celery) Seed Extract</i>           |
| 3230GL  | CHAMOMILE FLOWER IN GLYCERIN           | <i>Chamomilla Recutita (Matricaria) Flower Extract</i>  |
| 3232GL  | CHAPARRAL HERB IN GLYCERIN             | <i>Larrea Divaricata Extract</i>                        |



|         |                                     |   |
|---------|-------------------------------------|---|
| 3234GL  | CHICKWEED HERB IN GLYCERIN          | <i>Stellaria Media (Chickweed) Extract</i>  |
| 3235GL  | CINNAMON BARK IN GLYCERIN           | <i>Cinnamomum Cassia Bark Extract</i>   |
| 3236AGL | CLEAVERS HERB IN GLYCERIN           | <i>Galium Aparine Extract</i>   |
| 3314GL  | CODONOPSIS ROOT IN GLYCERIN         | <i>Codonopsis Lanceolata Root Extract</i>   |
| 3172GL  | COFFEE SEED IN GLYCERIN*            | <i>Coffea Arabica (Coffee) Seed Extract</i>   |
| 3236GL  | COLTSFOOT LEAF IN GLYCERIN          | <i>Tussilago Farfara (Coltsfoot) Leaf Extract</i>   |
| 3237GL  | COMFREY LEAF IN GLYCERIN            | <i>Symphytum Officinale Leaf Extract</i>  |
| 3238GL  | COMFREY ROOT IN GLYCERIN            | <i>Symphytum Officinale Root Extract</i>  |
| 3241GL  | CORN FLOWER IN GLYCERIN             | <i>Centaurea Cyanus Flower Extract</i>  |
| 3242GL  | CORNSILK IN GLYCERIN                | <i>Zea Mays (Corn) Silk Extract</i>   |
| 3243GL  | COUCHGRASS RHIZOME IN GLYCERIN      | <i>Agropyron Repens Root Extract</i>  |
| 3244CGL | CRANBERRY IN GLYCERIN               | <i>Vaccinium Macrocarpon (Cranberry) Fruit Extract</i>  |
| 3245GL  | CUCUMBER IN GLYCERIN*               | <i>Cucumis Sativus (Cucumber) Fruit Extract</i>   |
| 3246GL  | DAMIANA LEAF IN GLYCERIN            | <i>Turnera Diffusa Leaf Extract</i>   |
| 3248GL  | DANDELION ROOT IN GLYCERIN          | <i>Taraxacum Officinale (Dandelion) Root Extract</i>  |
| 3249GL  | DEVIL'S CLAW ROOT IN GLYCERIN       | <i>Harpagophytum Procumbens Root Extract</i>  |
| 3251GL  | DONG QUAI ROOT IN GLYCERIN          | <i>Angelica Polymorpha Sinensis Root Extract</i>  |
| 3252GL  | ECHINACEA IN GLYCERIN               | <i>Echinacea Angustifolia Root / Echinacea Purpurea Extract Root Extract / Echinacea Ppurpurea Flower/Leaf/Stem Extract</i> |
| 3253GL  | ELDER FLOWER IN GLYCERIN            | <i>Sambucus Nigra Flower Extract</i>  |
| 3254GL  | ELDERBERRY IN GLYCERIN*             | <i>Sambucus Nigra Fruit Extract</i>   |
| 3255GL  | ELECAMPANE ROOT IN GLYCERIN         | <i>Inula Helenium Extract</i>   |
| 3266GL  | ELEUTHERO ROOT IN GLYCERIN          | <i>Acanthopanax Senticosus (Eleuthero) Root Extract</i>   |
| 3256GL  | EVENING PRIMROSE FLOWER IN GLYCERIN | <i>Oenothera Biennis (Evening Primrose) Flower Extract</i>  |
| 3257GL  | EYEBRIGHT HERB IN GLYCERIN          | <i>Euphrasia Officinalis Extract</i>  |
| 3259GL  | FENNEL SEED IN GLYCERIN             | <i>Foeniculum Vulgare (Fennel) Seed Extract</i>   |
| 3260GL  | FENUGREEK SEED IN GLYCERIN          | <i>Trigonella Foenum-Graecum Seed Extract</i>   |
| 3260AGL | FEVERFEW HERB IN GLYCERIN           | <i>Chrysanthemum Parthenium (Feverfew) Extract</i>  |
| 3261GL  | FO TI ROOT IN GLYCERIN              | <i>Polygonum Multiflorum Cured Root Extract</i>   |
| 3269GL  | GARCINIA FRUIT IN GLYCERIN*         | <i>Garcinia Cambogia Fruit Extract</i>  |
| 3262GL  | GARLIC BULB IN GLYCERIN             | <i>Allium Sativum (Garlic) Bulb Extract</i>   |
| 3263GL  | GENTIAN ROOT IN GLYCERIN            | <i>Gentiana Lutea Root Extract</i>  |
| 3264GL  | GINGER ROOT IN GLYCERIN             | <i>Zingiber Officinale (Ginger) Root Extract</i>  |
| 3059GL  | GINKGO LEAF IN GLYCERIN             | <i>Ginkgo Biloba Leaf Extract</i>   |
| 3265CGL | GINSENG, AMERICAN ROOT IN GLYCERIN  | <i>Panax Quinquefolium Root Extract</i>   |
| 3350GL  | GOJI IN GLYCERIN                    | <i>Lycium Barbarum Fruit Extract</i>  |

|         |                                   |   |
|---------|-----------------------------------|---|
| 3268GL  | GOLDENSEAL ROOT IN GLYCERIN       | <i>Hydrastis Canadensis (Goldenseal) Root Extract</i>       |
| 3424GL  | GOTU KOLA IN GLYCERIN             | <i>Centella Asiatica Extract</i>                            |
| 3413GL  | GRAPE SEED IN GLYCERIN*           | <i>Vitis Vinifera (Grape) Seed Extract</i>                  |
| 3199GL  | GRAPEFRUIT SEED IN GLYCERIN*      | <i>Citrus Paradisi (Grapefruit) Seed Extract</i>            |
| 3345GL  | GREEN TEA LEAF IN GLYCERIN        | <i>Camellia Sinensis Leaf Extract</i>                       |
| 3346GL  | GUARANA SEED IN GLYCERIN*         | <i>Paullinia Cupana Seed Extract</i>                        |
| 3320GL  | GYMNEMA LEAF IN GLYCERIN          | <i>Gymnema Sylvestre Leaf Extract</i>                       |
| 3270GL  | HAWTHORN BERRY IN GLYCERIN        | <i>Crataegus Monogyna Fruit Extract</i>                     |
| 3629GL  | HIBISCUS FLOWER IN GLYCERIN       | <i>Hibiscus Sabdariffa Flower Extract</i>                   |
| 3362GL  | HOLY BASIL LEAF IN GLYCERIN       | <i>Ocimum Sanctum Leaf Extract</i>                          |
| 3482GL  | HONEY IN GLYCERIN                 | <i>Honey</i>  |
| 3271GL  | HOPS STROBILE IN GLYCERIN         | <i>Humulus Lupulus (Hops) Cone Extract</i>                  |
| 3272GL  | HOREHOUND HERB IN GLYCERIN        | <i>Marrubium Vulgare Extract</i>                            |
| 3274GL  | HORSE CHESTNUT SEED IN GLYCERIN   | <i>Aesculus Hippocastanum (Horse Chestnut) Seed Extract</i> |
| 3273GL  | HORSETAIL HERB IN GLYCERIN        | <i>Equisetum Arvense Extract</i>                            |
| 3275GL  | HYDRANGAEA ROOT IN GLYCERIN       | <i>Hydrangea Arborescens Root Extract</i>                   |
| 3276GL  | HYSSOP HERB IN GLYCERIN           | <i>Hyssopus Officinalis Flower Extract</i>                  |
| 3277GL  | IRISH MOSS IN GLYCERIN            | <i>Chondrus Crispus Extract</i>                             |
| 3281GL  | JUNIPER BERRY IN GLYCERIN         | <i>Juniperus Communis Fruit Extract</i>                     |
| 3281AGL | KAVA KAVA ROOT IN GLYCERIN        | <i>Piper Methysticum Root Extract</i>                       |
| 3282GL  | KELP IN GLYCERIN                  | <i>Ascophyllum Nodosum Extract</i>                          |
| 3283GL  | KOLA NUT IN GLYCERIN              | <i>Cola Nitida Seed Extract</i>                             |
| 3285GL  | LAVENDER FLOWER IN GLYCERIN       | <i>Lavandula Angustifolia (Lavender) Flower Extract</i>     |
| 3288GL  | LEMON BALM HERB IN GLYCERIN       | <i>Melissa Officinalis Extract</i>                          |
| 3289GL  | LEMON PEEL IN GLYCERIN*           | <i>Citrus Limon (Lemon) Peel Extract</i>                    |
| 3287GL  | LEMONGRASS IN GLYCERIN            | <i>Cymbopogon Citratus Extract</i>                          |
| 3291GL  | LICORICE ROOT IN GLYCERIN         | <i>Glycyrrhiza Glabra (Licorice) Root Extract</i>           |
| 3293GL  | LINDEN FLOWER IN GLYCERIN         | <i>Tilia Europaea Flower Extract</i>                        |
| 3294GL  | LOBELIA HERB IN GLYCERIN          | <i>Lobelia Inflata Extract</i>                              |
| 3321GL  | LOMATIUM ROOT IN GLYCERIN         | <i>Lomatium Dissectum Root Extract</i>                      |
| 3408GL  | MANGO IN GLYCERIN*                | <i>Mangifera Indica Fruit (Mango) Extract</i>               |
| 3445GL  | MANGOSTEEN IN GLYCERIN*           | <i>Garcinia Mangostana Fruit Extract</i>                    |
| 3265GL  | MARSHMALLOW ROOT IN GLYCERIN      | <i>Althaea Officinalis Root Extract</i>                     |
| 3299GL  | MEADOWSWEET IN GLYCERIN           | <i>Spiraea Ulmaria Flower Extract</i>                       |
| 3201GL  | MEXICAN ARNICA FLOWER IN GLYCERIN | <i>Heterotheca Inuloides Flower Extract</i>                 |
| 3338DGL | MILK THISTLE SEED IN GLYCERIN     | <i>Silybum Marianum Seed Extract</i>                        |

\*Indicates Fruitanical Extract



|         |                                   |   |
|---------|-----------------------------------|---|
| 3301GL  | MOTHERWORT HERB IN GLYCERIN       | <i>Leonurus Cardiac Extract</i>                       |
| 3302GL  | MUIRA PUAMA ROOT IN GLYCERIN      | <i>Ptychopetalum Olacoides Root Extract</i>           |
| 3303GL  | MULLEIN LEAF IN GLYCERIN          | <i>Verbascum Thapsus Leaf Extract</i>                 |
| 3304GL  | MYRRH GUM RESIN IN GLYCERIN       | <i>Commiphora Myrrha Resin</i>                        |
| 3367GL  | NETTLE LEAF IN GLYCERIN           | <i>Urtica Dioica (Nettle) Leaf Extract</i>            |
| 3305GL  | NETTLE ROOT IN GLYCERIN           | <i>Urtica Dioica (Nettle) Root Extract</i>            |
| 3270HGL | NEUTRAL HENNA IN GLYCERIN         | <i>Lawsonia Inermis (Henna) Leaf Extract</i>          |
| 3504GL  | NONI IN GLYCERIN*                 | <i>Morinda Citrifolia Fruit Extract</i>               |
| 98501GL | NOPAL CACTUS IN GLYCERIN          | <i>Opuntia Ficus-Indica Extract</i>                   |
| 3307GL  | OAT SEED IN GLYCERIN              | <i>Avena Sativa (Oat) Seed Extract</i>                |
| 3403GL  | OLIVE LEAF IN GLYCERIN            | <i>Olea Europaea (Olive) Leaf Extract</i>             |
| 3309GL  | ORANGE PEEL IN GLYCERIN*          | <i>Citrus Aurantium Dulcis (Orange) Peel Extract</i>  |
| 3308AGL | OREGON GRAPE ROOT IN GLYCERIN     | <i>Mahonia Aquifolium Root Extract</i>                |
| 3332GL  | OSHA ROOT IN GLYCERIN             | <i>Ligusticum Porteri Root Extract</i>                |
| 3832GL  | PAPAYA LEAF IN GLYCERIN           | <i>Carica Papaya (Papaya) Leaf Extract</i>            |
| 3311GL  | PARSLEY LEAF IN GLYCERIN          | <i>Petroselinum Crispum (Parsley) Leaf Extract</i>    |
| 3470GL  | PASSION FRUIT IN GLYCERIN*        | <i>Passiflora Edulis Fruit Extract</i>                |
| 3313GL  | PASSIONFLOWER HERB IN GLYCERIN    | <i>Passiflora Incarnata Flower Extract</i>            |
| 3314AGL | PAU D'ARCO INNER BARK IN GLYCERIN | <i>Tabebuia Impetiginosa Bark Extract</i>             |
| 3843GL  | PEACH FRUIT IN GLYCERIN*          | <i>Prunus Persica (Peach) Fruit Extract</i>           |
| 3363GL  | PEACH LEAF IN GLYCERIN*           | <i>Prunus Persica (Peach) Leaf Extract</i>            |
| 3314GL  | PENNYROYAL HERB IN GLYCERIN       | <i>Mentha Pulegium Extract</i>                        |
| 3315GL  | PEPPERMINT LEAF IN GLYCERIN       | <i>Mentha Piperita (Peppermint) Leaf Extract</i>      |
| 3316GL  | PERIWINKLE HERB IN GLYCERIN       | <i>Vinca Minor Extract</i>                            |
| 3432GL  | PINEAPPLE FRUIT IN GLYCERIN*      | <i>Ananas Sativus (Pineapple) Fruit Extract</i>       |
| 3319GL  | PLANTAIN LEAF IN GLYCERIN         | <i>Plantago Major Leaf Extract</i>                    |
| 3421GL  | POMEGRANATE IN GLYCERIN*          | <i>Punica Granatum Fruit Extract</i>                  |
| 3322GL  | PRICKLY ASH BARK IN GLYCERIN      | <i>Zanthoxylum Americanum Extract</i>                 |
| 3341GL  | PROPOLIS IN GLYCERIN              | <i>Propolis Extract</i>                               |
| 3324GL  | PUMPKIN SEED IN GLYCERIN          | <i>Cucurbita Pepo (Pumpkin) Seed Extract</i>          |
| 3365GL  | QUILLAJA BARK IN GLYCERIN         | <i>Quillaja Saponaria Bark Extract</i>                |
| 3326GL  | RED CLOVER TOPS IN GLYCERIN       | <i>Trifolium Pratense (Clover) Flower Extract</i>     |
| 3327GL  | RED RASPBERRY LEAF IN GLYCERIN*   | <i>Rubus Idaeus (Raspberry) Leaf Extract</i>          |
| 3336GL  | REISHI IN GLYCERIN                | <i>Ganoderma Lucidum (Mushroom) Extract</i>           |
| 3453GL  | RHODIOLA IN GLYCERIN              | <i>Rhodiola Rosea Root Extract</i>                    |
| 3328GL  | RHUBARB ROOT IN GLYCERIN          | <i>Rheum Palmatum Root Extract</i>                    |
| 3329GL  | ROSE HIPS IN GLYCERIN             | <i>Rosa Canina Fruit Extract</i>                      |
| 3330GL  | ROSEMARY LEAF IN GLYCERIN         | <i>Rosmarinus Officinalis (Rosemary) Leaf Extract</i> |
| 3331GL  | SAGE LEAF IN GLYCERIN             | <i>Salvia Officinalis (Sage) Leaf Extract</i>         |
| 3333GL  | SARSAPARILLA ROOT IN GLYCERIN     | <i>Smilax Aristolochiaefolia Root Extract</i>         |

|         |                                  |  |
|---------|----------------------------------|--|
| 3334GL  | SAW PALMETTO BERRY IN GLYCERIN   | <i>Serenoa Serrulata Fruit Extract</i>                 |
| 3336AGL | SCHIZANDRA BERRY IN GLYCERIN     | <i>Schizandra Chinensis Berry Extract</i>              |
| 3338AGL | SENNA LEAF IN GLYCERIN           | <i>Cassia Senna Leaf Extract</i>                       |
| 3338GL  | SHIITAKE IN GLYCERIN             | <i>Lentinus Edodes Extract</i>                         |
| 3335GL  | Skullcap HERB IN GLYCERIN        | <i>Scutellaria Lateriflora Extract</i>                 |
| 3337GL  | SLIPPERY ELM BARK IN GLYCERIN    | <i>Ulmus Fulva Bark Extract</i>                        |
| 3342GL  | SPINACH LEAF IN GLYCERIN         | <i>Spinacia Oleracea (Spinach) Leaf Extract</i>        |
| 3837GL  | SPIRULINA IN GLYCERIN            | <i>Arthrospira Platensis Extract</i>                   |
| 3909GL  | ST. JOHN'S WORT HERB IN GLYCERIN | <i>Hypericum Perforatum Flower/Leaf/Stem Extract</i>   |
| 3495GL  | STEVIA IN GLYCERIN               | <i>Stevia Rebaudiana Extract</i>                       |
| 3407GL  | STRAWBERRY IN GLYCERIN*          | <i>Fragaria Ananassa (Strawberry) Fruit Extract</i>    |
| 3339GL  | SUMA ROOT IN GLYCERIN            | <i>Pfaffia Paniculata Root Extract</i>                 |
| 3423GL  | TAMARIND IN GLYCERIN             | <i>Tamarindus Indica Fruit Extract</i>                 |
| 3344GL  | THYME HERB IN GLYCERIN           | <i>Thymus Vulgaris (Thyme) Extract</i>                 |
| 3418GL  | UVA URSI LEAF IN GLYCERIN        | <i>Arctostaphylos Uva Ursi Leaf Extract</i>            |
| 3348GL  | VALERIAN ROOT IN GLYCERIN        | <i>Valeriana Officinalis Root Extract</i>              |
| 3340GL  | VITEX BERRY IN GLYCERIN          | <i>Vitex Agnus Castus Extract</i>                      |
| 3306GL  | WHITE OAK BARK IN GLYCERIN       | <i>Quercus Alba Bark Extract</i>                       |
| 3422GL  | WHITE TEA LEAF IN GLYCERIN       | <i>Camellia Sinensis Leaf Extract</i>                  |
| 3325GL  | WHITE WILLOW BARK IN GLYCERIN    | <i>Salix Alba (Willow) Bark Extract</i>                |
| 3351GL  | WILD CHERRY BARK IN GLYCERIN     | <i>Prunus Serotina (Wild Cherry) Bark Extract</i>      |
| 3355GL  | WILD YAM ROOT IN GLYCERIN        | <i>Dioscorea Villosa (Wild Yam) Root Extract</i>       |
| 3356GL  | WITCH HAZEL LEAF IN GLYCERIN     | <i>Hamamelis Virginiana (Witch Hazel) Leaf Extract</i> |
| 3358GL  | YARROW FLOWERS IN GLYCERIN       | <i>Achillea Millefolium Flower Extract</i>             |
| 3359GL  | YELLOWDOCK ROOT IN GLYCERIN      | <i>Rumex Crispus Root Extract</i>                      |
| 3956GL  | YERBA MATE LEAF IN GLYCERIN      | <i>Ilex Paraguariensis Leaf Extract</i>                |
| 3359AGL | YOHIMBE IN GLYCERIN              | <i>Corynanthe Yohimbe Bark Extract</i>                 |
| 3360GL  | YUCCA IN GLYCERIN                | <i>Yucca Schidigera Stem Extract</i>                   |

**Custom Extract Blends Available Upon Request**

**Contact an Associate for Details**

### PACKAGE SIZES:

We understand that you may only need a small pail or you may need 200 kilograms.

That is what we offer:

**4 kilogram pail , 10 kilogram pail  
19 kilogram pail, 200 kilogram drums  
Custom Orders**

\*Indicates Fruitanical Extract



# PROPYLENE GLYCOL

Propylene glycol is a viscous colorless and nearly odorless organic compound. As an effective humectant and wetting

agent, it prevents water loss from the skin. It increases skin permeability of extracts and active ingredients as it penetrates into the outmost skin layers with emollient and lubricant properties. Also as an excellent solubilizer of ingredients, it increases the spreading properties of creams.



| CODE     | PRODUCT NAME                     | INCI NAME (Propylene Glycol and Water)                  |
|----------|----------------------------------|---|
| 3437NPG  | ACAI IN PG                       | <i>Euterpe Oleracea</i> Fruit Extract                   |
| 3203NPG  | ALFALFA LEAF IN PG               | <i>Medicago Sativa</i> (Alfalfa) Leaf Extract           |
| 3160NPG  | ALOE VERA GEL IN PG              | <i>Aloe Barbadensis</i> Leaf Extract                    |
| 3204ANPG | ANGELICA ROOT IN PG              | <i>Angelica Archangelica</i> Root Extract               |
| 3512NPG  | APRICOT IN PG                    | <i>Prunus Armeniaca</i> (Apricot) Fruit Extract         |
| 3347NPG  | ARTICHOKE LEAF IN PG             | <i>Cynara Scolymus</i> (Artichoke) Leaf Extract         |
| 3168NPG  | ASHWAGANDHA ROOT IN PG           | <i>Withania Somnifera</i> Root Extract                  |
| 3310NPG  | ASTRAGALUS ROOT IN PG            | <i>Astragalus Membranaceus</i> Root Extract             |
| 3995NPG  | AVOCADO IN PG*                   | <i>Persea Gratissima</i> (Avocado) Fruit Extract        |
| 3208NPG  | BARBERRY ROOT IN PG              | <i>Berberis Vulgaris</i> Root Extract                   |
| 3209ANPG | BAYBERRY BARK IN PG              | <i>Myrica Cerifera</i> (Bayberry) Bark Extract          |
| 3209NPG  | BEE POLLEN GRANULES IN PG        | Pollen Extract  |
| 3210CNPG | BILBERRY IN PG                   | <i>Vaccinium Myrtillus</i> Fruit Extract                |
| 3210NPG  | BIRCH LEAF IN PG                 | <i>Betula Alba</i> Leaf Extract                         |
| 3211NPG  | BLACK COHOSH ROOT IN PG          | <i>Cimicifuga Racemosa</i> Root Extract                 |
| 3212NPG  | BLACK WALNUT HULLS IN PG         | <i>Juglans Nigra</i> (Black Walnut) Shell Extract       |
| 3213NPG  | BLADDERWRACK FROND IN PG         | <i>Fucus Vesiculosus</i> Extract                        |
| 3214NPG  | BLESSED THISTLE HERB IN PG       | <i>Carbenia Benedicta</i> Extract                       |
| 3447NPG  | BLUEBERRY EXTRACT IN PG*         | <i>Vaccinium Corymbosum</i> (Blueberry) Fruit Extract   |
| 3215NPG  | BLUEBERRY LEAF IN PG             | <i>Vaccinium Angustifolium</i> (Blueberry) Leaf Extract |
| 3220NPG  | BONESET HERB IN PG               | <i>Eupatorium Purpureum</i> Flower/Leaf/Stem Extract    |
| 3417NPG  | BOSWELLIA IN PG                  | <i>Boswellia Serrata</i> Extract                        |
| 3312NPG  | BUPLEURUM ROOT IN PG             | <i>Bupleurum Chinese</i> Root Extract                   |
| 3222NPG  | BURDOCK ROOT IN PG               | <i>Arctium Lappa</i> Root Extract                       |
| 3223NPG  | CACTUS GRANDIFLORUS FLOWER IN PG | <i>Cereus Grandiflorus</i> (Cactus) Flower Extract      |
| 3224NPG  | CALENDULA FLOWER IN PG           | <i>Calendula Officinalis</i> Flower Extract             |
| 3225NPG  | CAPSICUM IN PG                   | <i>Capsicum Annuum</i> Fruit Extract                    |
| 3452NPG  | CARROT EXTRACT IN PG             | <i>Daucus Carota Sativa</i> (Carrot) Root Extract       |
| 3596NPG  | CASCARA SAGRADA BARK IN PG       | <i>Rhamnus Purshiana</i> Bark Extract                   |
| 9945ANPG | CAT'S CLAW BARK IN PG            | <i>Uncaria Tomentosa</i> Bark Extract                   |
| 3227BNPG | CATNIP HERB IN PG                | <i>Nepeta Cataria</i> Extract                           |
| 3228NPG  | CELERY SEED IN PG                | <i>Apium Graveolens</i> (Celery) Seed Extract           |
| 3230NPG  | CHAMOMILE FLOWER IN PG           | <i>Chamomilla Recutita</i> (Matricaria) Flower Extract  |
| 3232NPG  | CHAPARRAL HERB IN PG             | <i>Larrea Divaricata</i> Extract                        |
| 3234NPG  | CHICKWEED HERB IN PG             | <i>Stellaria Media</i> (Chickweed) Extract              |
| 3235NPG  | CINNAMON BARK IN PG              | <i>Cinnamomum Cassia</i> Bark Extract                   |

\*Indicates Fruitanical Extract



|          |                               |   |
|----------|-------------------------------|---|
| 3236ANPG | CLEAVERS HERB IN PG           | <i>Galium Aparine Extract</i>   |
| 3314NPG  | CODONOPSIS ROOT IN PG         | <i>Codonopsis Lanceolata Root Extract</i>   |
| 3172NPG  | COFFEE SEED IN PG*            | <i>Coffea Arabica (Coffee) Seed Extract</i>   |
| 3236NPG  | COLTSFOOT LEAF IN PG          | <i>Tussilago Farfara (Coltsfoot) Leaf Extract</i>   |
| 3237NPG  | COMFREY LEAF IN PG            | <i>Symphytum Officinale Leaf Extract</i>  |
| 3238NPG  | COMFREY ROOT IN PG            | <i>Symphytum Officinale Root Extract</i>  |
| 3241NPG  | CORN FLOWER IN PG             | <i>Centaurea Cyanus Flower Extract</i>  |
| 3242NPG  | CORNSILK IN PG                | <i>Zea Mays (Corn) Silk Extract</i>   |
| 3243NPG  | COUCHGRASS RHIZOME IN PG      | <i>Agropyron Repens Root Extract</i>  |
| 3244CNPG | CRANBERRY IN PG               | <i>Vaccinium Macrocarpon (Cranberry) Fruit Extract</i>  |
| 3245NPG  | CUCUMBER IN PG*               | <i>Cucumis Sativus (Cucumber) Fruit Extract</i>   |
| 3246NPG  | DAMIANA LEAF IN PG            | <i>Turnera Diffusa Leaf Extract</i>   |
| 3248NPG  | DANDELION ROOT IN PG          | <i>Taraxacum Officinale (Dandelion) Root Extract</i>  |
| 3249NPG  | DEVIL'S CLAW ROOT IN PG       | <i>Harpagophytum Procumbens Root Extract</i>  |
| 3251NPG  | DONG QUAI ROOT IN PG          | <i>Angelica Polymorpha Sinensis Root Extract</i>  |
| 3252NPG  | ECHINACEA IN PG               | <i>Echinacea Angustifolia Root / Echinacea Purpurea Extract Root Extract / Echinacea Ppurpurea Flower/Leaf/Stem Extract</i> |
| 3253NPG  | ELDER FLOWER IN PG            | <i>Sambucus Nigra Flower Extract</i>  |
| 3254NPG  | ELDERBERRY IN PG*             | <i>Sambucus Nigra Fruit Extract</i>   |
| 3255NPG  | ELECAMPANE ROOT IN PG         | <i>Inula Helenium Extract</i>   |
| 3266NPG  | ELEUTHERO ROOT IN PG          | <i>Acanthopanax Senticosus (Eleuthero) Root Extract</i>   |
| 3256NPG  | EVENING PRIMROSE FLOWER IN PG | <i>Oenothera Biennis (Evening Primrose) Flower Extract</i>  |
| 3257NPG  | EYEBRIGHT HERB IN PG          | <i>Euphrasia Officinalis Extract</i>  |
| 3259NPG  | FENNEL SEED IN PG             | <i>Foeniculum Vulgare (Fennel) Seed Extract</i>   |
| 3260NPG  | FENUGREEK SEED IN PG          | <i>Trigonella Foenum-Graecum Seed Extract</i>   |
| 3260ANPG | FEVERFEW HERB IN PG           | <i>Chrysanthemum Parthenium (Feverfew) Extract</i>  |
| 3261NPG  | FO TI ROOT IN PG              | <i>Polygonum Multiflorum Cured Root Extract</i>   |
| 3269NPG  | GARCINIA FRUIT IN PG*         | <i>Garcinia Cambogia Fruit Extract</i>  |
| 3262NPG  | GARLIC BULB IN PG             | <i>Allium Sativum (Garlic) Bulb Extract</i>   |
| 3263NPG  | GENTIAN ROOT IN PG            | <i>Gentiana Lutea Root Extract</i>  |
| 3264NPG  | GINGER ROOT IN PG             | <i>Zingiber Officinale (Ginger) Root Extract</i>  |
| 3059NPG  | GINKGO LEAF IN PG             | <i>Ginkgo Biloba Leaf Extract</i>   |
| 3265CNPG | GINSENG, AMERICAN ROOT IN PG  | <i>Panax Quinquefolium Root Extract</i>   |
| 3350NPG  | GOJI IN PG                    | <i>Lycium Barbarum Fruit Extract</i>  |
| 3268NPG  | GOLDENSEAL ROOT IN PG         | <i>Hydrastis Canadensis (Goldenseal) Root Extract</i>   |
| 3424NPG  | GOTU KOLA IN PG               | <i>Centella Asiatica Extract</i>  |
| 3413NPG  | GRAPE SEED IN PG*             | <i>Vitis Vinifera (Grape) Seed Extract</i>  |
| 3199NPG  | GRAPEFRUIT SEED IN PG*        | <i>Citrus Paradisi (Grapefruit) Seed Extract</i>  |

|          |                             |   |
|----------|-----------------------------|---|
| 3345NPG  | GREEN TEA LEAF IN PG        | <i>Camellia Sinensis Leaf Extract</i>                       |
| 3346NPG  | GUARANA SEED IN PG*         | <i>Paullinia Cupana Seed Extract</i>                        |
| 3320NPG  | GYMNEMA LEAF IN PG          | <i>Gymnema Sylvestre Leaf Extract</i>                       |
| 3270NPG  | HAWTHORN BERRY IN PG        | <i>Crataegus Monogyna Fruit Extract</i>                     |
| 3629NPG  | HIBISCUS FLOWER IN PG       | <i>Hibiscus Sabdariffa Flower Extract</i>                   |
| 3362NPG  | HOLY BASIL LEAF IN PG       | <i>Ocimum Sanctum Leaf Extract</i>                          |
| 3482NPG  | HONEY IN PG                 | <i>Honey</i>  |
| 3271NPG  | HOPS STROBILE IN PG         | <i>Humulus Lupulus (Hops) Cone Extract</i>                  |
| 3272NPG  | HOREHOUND HERB IN PG        | <i>Marrubium Vulgare Extract</i>                            |
| 3274NPG  | HORSE CHESTNUT SEED IN PG   | <i>Aesculus Hippocastanum (Horse Chestnut) Seed Extract</i> |
| 3273NPG  | HORSETAIL HERB IN PG        | <i>Equisetum Arvense Extract</i>                            |
| 3275NPG  | HYDRANGEA ROOT IN PG        | <i>Hydrangea Arborescens Root Extract</i>                   |
| 3276NPG  | HYSSOP HERB IN PG           | <i>Hyssopus Officinalis Flower Extract</i>                  |
| 3277NPG  | IRISH MOSS IN PG            | <i>Chondrus Crispus Extract</i>                             |
| 3281NPG  | JUNIPER BERRY IN PG         | <i>Juniperus Communis Fruit Extract</i>                     |
| 3281ANPG | KAVA KAVA ROOT IN PG        | <i>Piper Methysticum Root Extract</i>                       |
| 3282NPG  | KELP IN PG                  | <i>Ascophyllum Nodosum Extract</i>                          |
| 3283NPG  | KOLA NUT IN PG              | <i>Cola Nitida Seed Extract</i>                             |
| 3285NPG  | LAVENDER FLOWER IN PG       | <i>Lavandula Angustifolia (Lavender) Flower Extract</i>     |
| 3288NPG  | LEMON BALM HERB IN PG       | <i>Melissa Officinalis Extract</i>                          |
| 3289NPG  | LEMON PEEL IN PG*           | <i>Citrus Limon (Lemon) Peel Extract</i>                    |
| 3287NPG  | LEMONGRASS IN PG            | <i>Cymbopogon Citratus Extract</i>                          |
| 3291NPG  | LICORICE ROOT IN PG         | <i>Glycyrrhiza Glabra (Licorice) Root Extract</i>           |
| 3293NPG  | LINDEN FLOWER IN PG         | <i>Tilia Europaea Flower Extract</i>                        |
| 3294NPG  | LOBELIA HERB IN PG          | <i>Lobelia Inflata Extract</i>                              |
| 3321NPG  | LOMATIUM ROOT IN PG         | <i>Lomatium Dissectum Root Extract</i>                      |
| 3408NPG  | MANGO IN PG*                | <i>Mangifera Indica Fruit (Mango) Extract</i>               |
| 3445NPG  | MANGOSTEEN IN PG*           | <i>Garcinia Mangostana Fruit Extract</i>                    |
| 3265NPG  | MARSHMALLOW ROOT IN PG      | <i>Althaea Officinalis Root Extract</i>                     |
| 3299NPG  | MEADOWSWEET IN PG           | <i>Spiraea Ulmaria Flower Extract</i>                       |
| 3201NPG  | MEXICAN ARNICA FLOWER IN PG | <i>Heterotheca Inuloides Flower Extract</i>                 |
| 3338DNPG | MILK THISTLE SEED IN PG     | <i>Silybum Marianum Seed Extract</i>                        |
| 3301NPG  | MOTHERWORT HERB IN PG       | <i>Leonurus Cardiaca Extract</i>                            |
| 3302NPG  | MUIRA PUAMA ROOT IN PG      | <i>Ptychopetalum Olacoides Root Extract</i>                 |
| 3303NPG  | MULLEIN LEAF IN PG          | <i>Verbascum Thapsus Leaf Extract</i>                       |
| 3304NPG  | MYRRH GUM RESIN IN PG       | <i>Commiphora Myrrha Resin</i>                              |

\*Indicates Fruitanical Extract



|          |                             |   |
|----------|-----------------------------|---|
| 3367NPG  | NETTLE LEAF IN PG           | <i>Urtica Dioica (Nettle) Leaf Extract</i>            |
| 3305NPG  | NETTLE ROOT IN PG           | <i>Urtica Dioica (Nettle) Root Extract</i>            |
| 3270HNPG | NEUTRAL HENNA IN PG         | <i>Lawsonia Inermis (Henna) Leaf Extract</i>          |
| 3504NPG  | NONI IN PG*                 | <i>Morinda Citrifolia Fruit Extract</i>               |
| 98501NPG | NOPAL CACTUS IN PG          | <i>Opuntia Ficus-Indica Extract</i>                   |
| 3307NPG  | OAT SEED IN PG              | <i>Avena Sativa (Oat) Seed Extract</i>                |
| 3403NPG  | OLIVE LEAF IN PG            | <i>Olea Europaea (Olive) Leaf Extract</i>             |
| 3309NPG  | ORANGE PEEL IN PG*          | <i>Citrus Aurantium Dulcis (Orange) Peel Extract</i>  |
| 3308ANPG | OREGON GRAPE ROOT IN PG     | <i>Mahonia Aquifolium Root Extract</i>                |
| 3332NPG  | OSHA ROOT IN PG             | <i>Ligusticum Porteri Root Extract</i>                |
| 3832NPG  | PAPAYA LEAF IN PG           | <i>Carica Papaya (Papaya) Leaf Extract</i>            |
| 3311NPG  | PARSLEY LEAF IN PG          | <i>Petroselinum Crispum (Parsley) Leaf Extract</i>    |
| 3470NPG  | PASSION FRUIT IN PG*        | <i>Passiflora Edulis Fruit Extract</i>                |
| 3313NPG  | PASSIONFLOWER HERB IN PG    | <i>Passiflora Incarnata Flower Extract</i>            |
| 3314ANPG | PAU D'ARCO INNER BARK IN PG | <i>Tabebuia Impetiginosa Bark Extract</i>             |
| 3843NPG  | PEACH FRUIT IN PG*          | <i>Prunus Persica (Peach) Fruit Extract</i>           |
| 3363NPG  | PEACH LEAF IN PG*           | <i>Prunus Persica (Peach) Leaf Extract</i>            |
| 3314BNPG | PENNYROYAL HERB IN PG       | <i>Mentha Pulegium Extract</i>                        |
| 3315NPG  | PEPPERMINT LEAF IN PG       | <i>Mentha Piperita (Peppermint) Leaf Extract</i>      |
| 3316NPG  | PERIWINKLE HERB IN PG       | <i>Vinca Minor Extract</i>                            |
| 3432NPG  | PINEAPPLE FRUIT IN PG*      | <i>Ananas Sativus (Pineapple) Fruit Extract</i>       |
| 3319NPG  | PLANTAIN LEAF IN PG         | <i>Plantago Major Leaf Extract</i>                    |
| 3421NPG  | POMEGRANATE IN PG*          | <i>Punica Granatum Fruit Extract</i>                  |
| 3322NPG  | PRICKLY ASH BARK IN PG      | <i>Zanthoxylum Americanum Extract</i>                 |
| 3341NPG  | PROPOLIS IN PG              | <i>Propolis Extract</i>                               |
| 3324NPG  | PUMPKIN SEED IN PG          | <i>Cucurbita Pepo (Pumpkin) Seed Extract</i>          |
| 3365NPG  | QUILLAJA BARK IN PG         | <i>Quillaja Saponaria Bark Extract</i>                |
| 3326NPG  | RED CLOVER TOPS IN PG       | <i>Trifolium Pratense (Clover) Flower Extract</i>     |
| 3327NPG  | RED RASPBERRY LEAF IN PG*   | <i>Rubus Idaeus (Raspberry) Leaf Extract</i>          |
| 3336NPG  | REISHI IN PG                | <i>Ganoderma Lucidum (Mushroom) Extract</i>           |
| 3453NPG  | RHODIOLA IN PG              | <i>Rhodiola Rosea Root Extract</i>                    |
| 3328NPG  | RHUBARB ROOT IN PG          | <i>Rheum Palmatum Root Extract</i>                    |
| 3329NPG  | ROSE HIPS IN PG             | <i>Rosa Canina Fruit Extract</i>                      |
| 3330NPG  | ROSEMARY LEAF IN PG         | <i>Rosmarinus Officinalis (Rosemary) Leaf Extract</i> |
| 3331NPG  | SAGE LEAF IN PG             | <i>Salvia Officinalis (Sage) Leaf Extract</i>         |
| 3333NPG  | SARSAPARILLA ROOT IN PG     | <i>Smilax Aristolochiaefolia Root Extract</i>         |
| 3334NPG  | SAW PALMETTO BERRY IN PG    | <i>Serenoa Serrulata Fruit Extract</i>                |
| 3336ANPG | SCHIZANDRA BERRY IN PG      | <i>Schizandra Chinensis Berry Extract</i>             |

|          |                            |  |
|----------|----------------------------|--|
| 3338ANPG | SENNA LEAF IN PG           | <i>Cassia Senna Leaf Extract</i>                       |
| 3338NPG  | SHIITAKE IN PG             | <i>Lentinus Edodes Extract</i>                         |
| 3335NPG  | Skullcap HERB IN PG        | <i>Scutellaria Lateriflora Extract</i>                 |
| 3337NPG  | SLIPPERY ELM BARK IN PG    | <i>Ulmus Fulva Bark Extract</i>                        |
| 3342NPG  | SPINACH LEAF IN PG         | <i>Spinacia Oleracea (Spinach) Leaf Extract</i>        |
| 3837NPG  | SPIRULINA IN PG            | <i>Arthrospira Platensis Extract</i>                   |
| 3909NPG  | ST. JOHN'S WORT HERB IN PG | <i>Hypericum Perforatum Flower/Leaf/Stem Extract</i>   |
| 3495NPG  | STEVIA IN PG               | <i>Stevia Rebaudiana Extract</i>                       |
| 3407NPG  | STRAWBERRY IN PG*          | <i>Fragaria Ananassa (Strawberry) Fruit Extract</i>    |
| 3339NPG  | SUMA ROOT IN PG            | <i>Pfaffia Paniculata Root Extract</i>                 |
| 3423NPG  | TAMARIND IN PG             | <i>Tamarindus Indica Fruit Extract</i>                 |
| 3344NPG  | THYME HERB IN PG           | <i>Thymus Vulgaris (Thyme) Extract</i>                 |
| 3418NPG  | UVA URSI LEAF IN PG        | <i>Arctostaphylos Uva Ursi Leaf Extract</i>            |
| 3348NPG  | VALERIAN ROOT IN PG        | <i>Valeriana Officinalis Root Extract</i>              |
| 3340NPG  | VITEX BERRY IN PG          | <i>Vitex Agnus Castus Extract</i>                      |
| 3306NPG  | WHITE OAK BARK IN PG       | <i>Quercus Alba Bark Extract</i>                       |
| 3422NPG  | WHITE TEA LEAF IN PG       | <i>Camellia Sinensis Leaf Extract</i>                  |
| 3325NPG  | WHITE WILLOW BARK IN PG    | <i>Salix Alba (Willow) Bark Extract</i>                |
| 3351NPG  | WILD CHERRY BARK IN PG     | <i>Prunus Serotina (Wild Cherry) Bark Extract</i>      |
| 3355NPG  | WILD YAM ROOT IN PG        | <i>Dioscorea Villosa (Wild Yam) Root Extract</i>       |
| 3356NPG  | WITCH HAZEL LEAF IN PG     | <i>Hamamelis Virginiana (Witch Hazel) Leaf Extract</i> |
| 3358NPG  | YARROW FLOWERS IN PG       | <i>Achillea Millefolium Flower Extract</i>             |
| 3359NPG  | YELLOWDOCK ROOT IN PG      | <i>Rumex Crispus Root Extract</i>                      |
| 3956NPG  | YERBA MATE LEAF IN PG      | <i>Ilex Paraguariensis Leaf Extract</i>                |
| 3359ANPG | YOHIMBE IN PG              | <i>Corynanthe Yohimbe Bark Extract</i>                 |
| 3360NPG  | YUCCA IN PG                | <i>Yucca Schidigera Stem Extract</i>                   |

**Custom Extract Blends Available Upon Request**

**Contact an Associate for Details**

## PACKAGE SIZES:

We understand that you may only need a small pail or you may need 200 kilograms.

That is what we offer:

**4 kilogram pail , 10 kilogram pail  
19 kilogram pail, 200 kilogram drums**

**Custom Orders**



# BUTYLENE GLYCOL

Butylene Glycol is a commonly used slip agent and solubilizer that has multiple functions in cosmetics, depending on the formula. It is similar to propylene glycol but with a lighter texture.

It can be used across a wide range of leave-on and rinse-off formulations to impart excellent solubilizing power.



| CODE     | PRODUCT NAME                     | INCI NAME (Butylene Glycol and Water)                   |
|----------|----------------------------------|---|
| 3203NBG  | ALFALFA LEAF IN BG               | <i>Medicago Sativa (Alfalfa) Leaf Extract</i>           |
| 3160NBG  | ALOE VERA GEL IN BG              | <i>Aloe Barbadosensis Leaf Extract</i>                  |
| 3204ANBG | ANGELICA ROOT IN BG              | <i>Angelica Archangelica Root Extract</i>               |
| 3512ZNBG | APRICOT IN BG                    | <i>Prunus Armeniaca (Apricot) Fruit Extract</i>         |
| 3347NBG  | ARTICHOKE LEAF IN BG             | <i>Cynara Scolymus (Artichoke) Leaf Extract</i>         |
| 3168NBG  | ASHWAGANDHA ROOT IN BG           | <i>Withania Somnifera Root Extract</i>                  |
| 3310NBG  | ASTRAGALUS ROOT IN BG            | <i>Astragalus Membranaceus Root Extract</i>             |
| 3995NBG  | AVOCADO IN BG*                   | <i>Persea Gratissima (Avocado) Fruit Extract</i>        |
| 3208NBG  | BARBERRY ROOT IN BG              | <i>Berberis Vulgaris Root Extract</i>                   |
| 3209ANBG | BAYBERRY BARK IN BG              | <i>Myrica Cerifera (Bayberry) Bark Extract</i>          |
| 3209NBG  | BEE POLLEN GRANULES IN BG        | <i>Pollen Extract</i>                                   |
| 3210CNBG | BILBERRY IN BG                   | <i>Vaccinium Myrtillus Fruit Extract</i>                |
| 3210NBG  | BIRCH LEAF IN BG                 | <i>Betula Alba Leaf Extract</i>                         |
| 3211NBG  | BLACK COHOSH ROOT IN BG          | <i>Cimicifuga Racemosa Root Extract</i>                 |
| 3212NBG  | BLACK WALNUT HULLS IN BG         | <i>Juglans Nigra (Black Walnut) Shell Extract</i>       |
| 3213NBG  | BLADDERWRACK FROND IN BG         | <i>Fucus Vesiculosus Extract</i>                        |
| 3214NBG  | BLESSED THISTLE HERB IN BG       | <i>Carbenia Benedicta Extract</i>                       |
| 3447NBG  | BLUEBERRY EXTRACT IN BG*         | <i>Vaccinium Corymbosum (Blueberry) Fruit Extract</i>   |
| 3215NBG  | BLUEBERRY LEAF IN BG             | <i>Vaccinium Angustifolium (Blueberry) Leaf Extract</i> |
| 3220NBG  | BONESET HERB IN BG               | <i>Eupatorium Purpureum Flower/Leaf/Stem Extract</i>    |
| 3417NBG  | BOSWELLIA IN BG                  | <i>Boswellia Serrata Extract</i>                        |
| 3312NBG  | BUPLEURUM ROOT IN BG             | <i>Bupleurum Chinese Root Extract</i>                   |
| 3222NBG  | BURDOCK ROOT IN BG               | <i>Arctium Lappa Root Extract</i>                       |
| 3223NBG  | CACTUS GRANDIFLORUS FLOWER IN BG | <i>Cereus Grandiflorus (Cactus) Flower Extract</i>      |
| 3224NBG  | CALENDULA FLOWER IN BG           | <i>Calendula Officinalis Flower Extract</i>             |
| 3225NBG  | CAPSICUM IN BG                   | <i>Capsicum Annum Fruit Extract</i>                     |
| 3452NBG  | CARROT EXTRACT IN BG             | <i>Daucus Carota Sativa (Carrot) Root Extract</i>       |
| 3596NBG  | CASCARA SAGRADA BARK IN BG       | <i>Rhamnus Purshiana Bark Extract</i>                   |
| 9945ANBG | CAT'S CLAW BARK IN BG            | <i>Uncaria Tomentosa Bark Extract</i>                   |
| 3227BNBG | CATNIP HERB IN BG                | <i>Nepeta Cataria Extract</i>                           |
| 3228NBG  | CELERY SEED IN BG                | <i>Apium Graveolens (Celery) Seed Extract</i>           |
| 3230NBG  | CHAMOMILE FLOWER IN BG           | <i>Chamomilla Recutita (Matricaria) Flower Extract</i>  |
| 3232NBG  | CHAPARRAL HERB IN BG             | <i>Larrea Divaricata Extract</i>                        |
| 3234NBG  | CHICKWEED HERB IN BG             | <i>Stellaria Media (Chickweed) Extract</i>              |
| 3235NBG  | CINNAMON BARK IN BG              | <i>Cinnamomum Cassia Bark Extract</i>                   |
| 3236ANBG | CLEAVERS HERB IN BG              | <i>Galium Aparine Extract</i>                           |
| 3314NBG  | CODONOPSIS ROOT IN BG            | <i>Codonopsis Lanceolata Root Extract</i>               |

\*Indicates Fruitanical Extract



|          |                               |   |
|----------|-------------------------------|---|
| 3172NBG  | COFFEE SEED IN BG*            | <i>Coffea Arabica (Coffee) Seed Extract</i>   |
| 3236NBG  | COLTSFOOT LEAF IN BG          | <i>Tussilago Farfara (Coltsfoot) Leaf Extract</i>   |
| 3237NBG  | COMFREY LEAF IN BG            | <i>Symphytum Officinale Leaf Extract</i>  |
| 3238NBG  | COMFREY ROOT IN BG            | <i>Symphytum Officinale Root Extract</i>  |
| 3241NBG  | CORN FLOWER IN BG             | <i>Centaurea Cyanus Flower Extract</i>  |
| 3242NBG  | CORNSILK IN BG                | <i>Zea Mays (Corn) Silk Extract</i>   |
| 3243NBG  | COUCHGRASS RHIZOME IN BG      | <i>Agropyron Repens Root Extract</i>  |
| 3244CNBG | CRANBERRY IN BG               | <i>Vaccinium Macrocarpon (Cranberry) Fruit Extract</i>  |
| 3245NBG  | CUCUMBER IN BG*               | <i>Cucumis Sativus (Cucumber) Fruit Extract</i>   |
| 3246NBG  | DAMIANA LEAF IN BG            | <i>Turnera Diffusa Leaf Extract</i>   |
| 3248NBG  | DANDELION ROOT IN BG          | <i>Taraxacum Officinale (Dandelion) Root Extract</i>  |
| 3249NBG  | DEVIL'S CLAW ROOT IN BG       | <i>Harpagophytum Procumbens Root Extract</i>  |
| 3251NBG  | DONG QUAI ROOT IN BG          | <i>Angelica Polymorpha Sinensis Root Extract</i>  |
| 3252NBG  | ECHINACEA IN BG               | <i>Echinacea Angustifolia Root / Echinacea Purpurea Extract Root Extract / Echinacea Ppurpurea Flower/Leaf/Stem Extract</i> |
| 3253NBG  | ELDER FLOWER IN BG            | <i>Sambucus Nigra Flower Extract</i>  |
| 3254NBG  | ELDERBERRY IN BG*             | <i>Sambucus Nigra Fruit Extract</i>   |
| 3255NBG  | ELECAMPANE ROOT IN BG         | <i>Inula Helenium Extract</i>   |
| 3266NBG  | ELEUTHERO ROOT IN BG          | <i>Acanthopanax Senticosus (Eleuthero) Root Extract</i>   |
| 3256NBG  | EVENING PRIMROSE FLOWER IN BG | <i>Oenothera Biennis (Evening Primrose) Flower Extract</i>  |
| 3257NBG  | EYEBRIGHT HERB IN BG          | <i>Euphrasia Officinalis Extract</i>  |
| 3259NBG  | FENNEL SEED IN BG             | <i>Foeniculum Vulgare (Fennel) Seed Extract</i>   |
| 3260NBG  | FENUGREEK SEED IN BG          | <i>Trigonella Foenum-Graecum Seed Extract</i>   |
| 3260ANBG | FEVERFEW HERB IN BG           | <i>Chrysanthemum Parthenium (Feverfew) Extract</i>  |
| 3261NBG  | FO TI ROOT IN BG              | <i>Polygonum Multiflorum Cured Root Extract</i>   |
| 3269NBG  | GARCINIA FRUIT IN BG*         | <i>Garcinia Cambogia Fruit Extract</i>  |
| 3262NBG  | GARLIC BULB IN BG             | <i>Allium Sativum (Garlic) Bulb Extract</i>   |
| 3263NBG  | GENTIAN ROOT IN BG            | <i>Gentiana Lutea Root Extract</i>  |
| 3264NBG  | GINGER ROOT IN BG             | <i>Zingiber Officinale (Ginger) Root Extract</i>  |
| 3059NBG  | GINKGO LEAF IN BG             | <i>Ginkgo Biloba Leaf Extract</i>   |
| 3265CNBG | GINSENG, AMERICAN ROOT IN BG  | <i>Panax Quinquefolium Root Extract</i>   |
| 3350NBG  | GOJI IN BG                    | <i>Lycium Barbarum Fruit Extract</i>  |
| 3268NBG  | GOLDENSEAL ROOT IN BG         | <i>Hydrastis Canadensis (Goldenseal) Root Extract</i>   |
| 3424NBG  | GOTU KOLA IN BG               | <i>Centella Asiatica Extract</i>  |
| 3413NBG  | GRAPE SEED IN BG*             | <i>Vitis Vinifera (Grape) Seed Extract</i>  |

|          |                             |   |
|----------|-----------------------------|---|
| 3199NBG  | GRAPEFRUIT SEED IN BG*      | <i>Citrus Paradisi (Grapefruit) Seed Extract</i>            |
| 3345NBG  | GREEN TEA LEAF IN BG        | <i>Camellia Sinensis Leaf Extract</i>                       |
| 3346NBG  | GUARANA SEED IN BG*         | <i>Paullinia Cupana Seed Extract</i>                        |
| 3320NBG  | GYMNEMA LEAF IN BG          | <i>Gymnema Sylvestre Leaf Extract</i>                       |
| 3270NBG  | HAWTHORN BERRY IN BG        | <i>Crataegus Monogyna Fruit Extract</i>                     |
| 3629NBG  | HIBISCUS FLOWER IN BG       | <i>Hibiscus Sabdariffa Flower Extract</i>                   |
| 3362NBG  | HOLY BASIL LEAF IN BG       | <i>Ocimum Sanctum Leaf Extract</i>                          |
| 3482NBG  | HONEY IN BG                 | <i>Honey</i>  |
| 3271NBG  | HOPS STROBILE IN BG         | <i>Humulus Lupulus (Hops) Cone Extract</i>                  |
| 3272NBG  | HOREHOUND HERB IN BG        | <i>Marrubium Vulgare Extract</i>                            |
| 3274NBG  | HORSE CHESTNUT SEED IN BG   | <i>Aesculus Hippocastanum (Horse Chestnut) Seed Extract</i> |
| 3273NBG  | HORSETAIL HERB IN BG        | <i>Equisetum Arvense Extract</i>                            |
| 3275NBG  | HYDRANGEA ROOT IN BG        | <i>Hydrangea Arborescens Root Extract</i>                   |
| 3276NBG  | HYSSOP HERB IN BG           | <i>Hyssopus Officinalis Flower Extract</i>                  |
| 3277NBG  | IRISH MOSS IN BG            | <i>Chondrus Crispus Extract</i>                             |
| 3281NBG  | JUNIPER BERRY IN BG         | <i>Juniperus Communis Fruit Extract</i>                     |
| 3281ANBG | KAVA KAVA ROOT IN BG        | <i>Piper Methysticum Root Extract</i>                       |
| 3282NBG  | KELP IN BG                  | <i>Ascophyllum Nodosum Extract</i>                          |
| 3283NBG  | KOLA NUT IN BG              | <i>Cola Nitida Seed Extract</i>                             |
| 3285NBG  | LAVENDER FLOWER IN BG       | <i>Lavandula Angustifolia (Lavender) Flower Extract</i>     |
| 3288NBG  | LEMON BALM HERB IN BG       | <i>Melissa Officinalis Extract</i>                          |
| 3289NBG  | LEMON PEEL IN BG*           | <i>Citrus Limon (Lemon) Peel Extract</i>                    |
| 3287NBG  | LEMONGRASS IN BG            | <i>Cymbopogon Citratus Extract</i>                          |
| 3291NBG  | LICORICE ROOT IN BG         | <i>Glycyrrhiza Glabra (Licorice) Root Extract</i>           |
| 3293NBG  | LINDEN FLOWER IN BG         | <i>Tilia Europaea Flower Extract</i>                        |
| 3294NBG  | LOBELIA HERB IN BG          | <i>Lobelia Inflata Extract</i>                              |
| 3321NBG  | LOMATIUM ROOT IN BG         | <i>Lomatium Dissectum Root Extract</i>                      |
| 3408NBG  | MANGO IN BG*                | <i>Mangifera Indica Fruit (Mango) Extract</i>               |
| 3445NBG  | MANGOSTEEN IN BG*           | <i>Garcinia Mangostana Fruit Extract</i>                    |
| 3265NBG  | MARSHMALLOW ROOT IN BG      | <i>Althaea Officinalis Root Extract</i>                     |
| 3299NBG  | MEADOWSWEET IN BG           | <i>Spiraea Ulmaria Flower Extract</i>                       |
| 3201NBG  | MEXICAN ARNICA FLOWER IN BG | <i>Heterotheca Inuloides Flower Extract</i>                 |
| 3338DNBG | MILK THISTLE SEED IN BG     | <i>Silybum Marianum Seed Extract</i>                        |
| 3301NBG  | MOTHERWORT HERB IN BG       | <i>Leonurus Cardiaca Extract</i>                            |

\*Indicates Fruitanical Extract



|          |                             |  |
|----------|-----------------------------|--|
| 3302NBG  | MUIRA PUAMA ROOT IN BG      | <i>Ptychopetalum Olacoides</i> Root Extract          |
| 3303NBG  | MULLEIN LEAF IN BG          | <i>Verbascum Thapsus</i> Leaf Extract                |
| 3304NBG  | MYRRH GUM RESIN IN BG       | <i>Commiphora Myrrha</i> Resin                       |
| 3367NBG  | NETTLE LEAF IN BG           | <i>Urtica Dioica</i> (Nettle) Leaf Extract           |
| 3305NBG  | NETTLE ROOT IN BG           | <i>Urtica Dioica</i> (Nettle) Root Extract           |
| 3270HNBG | NEUTRAL HENNA IN BG         | <i>Lawsonia Inermis</i> (Henna) Leaf Extract         |
| 3504NBG  | NONI IN BG*                 | <i>Morinda Citrifolia</i> Fruit Extract              |
| 9850NBG  | NOPAL CACTUS IN BG          | <i>Opuntia Ficus-Indica</i> Extract                  |
| 3307NBG  | OAT SEED IN BG              | <i>Avena Sativa</i> (Oat) Seed Extract               |
| 3403NBG  | OLIVE LEAF IN BG            | <i>Olea Europaea</i> (Olive) Leaf Extract            |
| 3309NBG  | ORANGE PEEL IN BG*          | <i>Citrus Aurantium Dulcis</i> (Orange) Peel Extract |
| 3308ANBG | OREGON GRAPE ROOT IN BG     | <i>Mahonia Aquifolium</i> Root Extract               |
| 3332NBG  | OSHA ROOT IN BG             | <i>Ligusticum Porteri</i> Root Extract               |
| 3832NBG  | PAPAYA LEAF IN BG           | <i>Carica Papaya</i> (Papaya) Leaf Extract           |
| 3311NBG  | PARSLEY LEAF IN BG          | <i>Petroselinum Crispum</i> (Parsley) Leaf Extract   |
| 3470NBG  | PASSION FRUIT IN BG*        | <i>Passiflora Edulis</i> Fruit Extract               |
| 3313NBG  | PASSIONFLOWER HERB IN BG    | <i>Passiflora Incarnata</i> Flower Extract           |
| 3314ANBG | PAU D'ARCO INNER BARK IN BG | <i>Tabebuia Impetiginosa</i> Bark Extract            |
| 3843NBG  | PEACH FRUIT IN BG*          | <i>Prunus Persica</i> (Peach) Fruit Extract          |
| 3363NBG  | PEACH LEAF IN BG*           | <i>Prunus Persica</i> (Peach) Leaf Extract           |
| 3314BNBG | PENNYROYAL HERB IN BG       | <i>Mentha Pulegium</i> Extract                       |
| 3315NBG  | PEPPERMINT LEAF IN BG       | <i>Mentha Piperita</i> (Peppermint) Leaf Extract     |
| 3316NBG  | PERIWINKLE HERB IN BG       | <i>Vinca Minor</i> Extract                           |
| 3432NBG  | PINEAPPLE FRUIT IN BG*      | <i>Ananas Sativus</i> (Pineapple) Fruit Extract      |
| 3319NBG  | PLANTAIN LEAF IN BG         | <i>Plantago Major</i> Leaf Extract                   |
| 3421NBG  | POMEGRANATE IN BG*          | <i>Punica Granatum</i> Fruit Extract                 |
| 3322NBG  | PRICKLY ASH BARK IN BG      | <i>Zanthoxylum Americanum</i> Extract                |
| 3341NBG  | PROPOLIS IN BG              | <i>Propolis</i> Extract                              |
| 3324NBG  | PUMPKIN SEED IN BG          | <i>Cucurbita Pepo</i> (Pumpkin) Seed Extract         |
| 3365NBG  | QUILLAJA BARK IN BG         | <i>Quillaja Saponaria</i> Bark Extract               |
| 3326NBG  | RED CLOVER TOPS IN BG       | <i>Trifolium Pratense</i> (Clover) Flower Extract    |
| 3327NBG  | RED RASPBERRY LEAF IN BG*   | <i>Rubus Idaeus</i> (Raspberry) Leaf Extract         |
| 3336NBG  | REISHI IN BG                | <i>Ganoderma Lucidum</i> (Mushroom) Extract          |
| 3453NBG  | RHODIOLA IN BG              | <i>Rhodiola Rosea</i> Root Extract                   |
| 3328NBG  | RHUBARB ROOT IN BG          | <i>Rheum Palmatum</i> Root Extract                   |
| 3329NBG  | ROSE HIPS IN BG             | <i>Rosa Canina</i> Fruit Extract                     |

|          |                            |  |
|----------|----------------------------|--|
| 3330NBG  | ROSEMARY LEAF IN BG        | <i>Rosmarinus Officinalis</i> (Rosemary) Leaf Extract  |
| 3331NBG  | SAGE LEAF IN BG            | <i>Salvia Officinalis</i> (Sage) Leaf Extract          |
| 3333NBG  | SARSAPARILLA ROOT IN BG    | <i>Smilax Aristolochiaefolia</i> Root Extract          |
| 3334NBG  | SAW PALMETTO BERRY IN BG   | <i>Serenoa Serrulata</i> Fruit Extract                 |
| 3336ANBG | SCHIZANDRA BERRY IN BG     | <i>Schizandra Chinensis</i> Berry Extract              |
| 3338ANBG | SENNA LEAF IN BG           | <i>Cassia Senna</i> Leaf Extract                       |
| 3338NBG  | SHIITAKE IN BG             | <i>Lentinus Edodes</i> Extract                         |
| 3335NBG  | Skullcap HERB IN BG        | <i>Scutellaria Lateriflora</i> Extract                 |
| 3337NBG  | SLIPPERY ELM BARK IN BG    | <i>Ulmus Fulva</i> Bark Extract                        |
| 3342NBG  | SPINACH LEAF IN BG         | <i>Spinacia Oleracea</i> (Spinach) Leaf Extract        |
| 3837NBG  | SPIRULINA IN BG            | <i>Arthrospira Platensis</i> Extract                   |
| 3909NBG  | ST. JOHN'S WORT HERB IN BG | <i>Hypericum Perforatum</i> Flower/Leaf/Stem Extract   |
| 3495NBG  | STEVIA IN BG               | <i>Stevia Rebaudiana</i> Extract                       |
| 3407NBG  | STRAWBERRY IN BG*          | <i>Fragaria Ananassa</i> (Strawberry) Fruit Extract    |
| 3339NBG  | SUMA ROOT IN BG            | <i>Pfaffia Paniculata</i> Root Extract                 |
| 3423NBG  | TAMARIND IN BG             | <i>Tamarindus Indica</i> Fruit Extract                 |
| 3344NBG  | THYME HERB IN BG           | <i>Thymus Vulgaris</i> (Thyme) Extract                 |
| 3418NBG  | UVA URSI LEAF IN BG        | <i>Arctostaphylos Uva Ursi</i> Leaf Extract            |
| 3348NBG  | VALERIAN ROOT IN BG        | <i>Valeriana Officinalis</i> Root Extract              |
| 3340NBG  | VITEX BERRY IN BG          | <i>Vitex Agnus Castus</i> Extract                      |
| 3306NBG  | WHITE OAK BARK IN BG       | <i>Quercus Alba</i> Bark Extract                       |
| 3422NBG  | WHITE TEA LEAF IN BG       | <i>Camellia Sinensis</i> Leaf Extract                  |
| 3325NBG  | WHITE WILLOW BARK IN BG    | <i>Salix Alba</i> (Willow) Bark Extract                |
| 3351NBG  | WILD CHERRY BARK IN BG     | <i>Prunus Serotina</i> (Wild Cherry) Bark Extract      |
| 3355NBG  | WILD YAM ROOT IN BG        | <i>Dioscorea Villosa</i> (Wild Yam) Root Extract       |
| 3356NBG  | WITCH HAZEL LEAF IN BG     | <i>Hamamelis Virginiana</i> (Witch Hazel) Leaf Extract |
| 3358NBG  | YARROW FLOWERS IN BG       | <i>Achillea Millefolium</i> Flower Extract             |
| 3359NBG  | YELLOWDOCK ROOT IN BG      | <i>Rumex Crispus</i> Root Extract                      |
| 3956NBG  | YERBA MATE LEAF IN BG      | <i>Ilex Paraguariensis</i> Leaf Extract                |
| 3359ANBG | YOHIMBE IN BG              | <i>Corynanthe Yohimbe</i> Bark Extract                 |
| 3360NBG  | YUCCA IN BG                | <i>Yucca Schidigera</i> Stem Extract                   |

**Custom Extract Blends Available Upon Request  
Contact an Associate for Details**

\*Indicates Fruitanical Extract





# ORGANIC EXTRACTS

Bio-Botanica's available organic extracts



| CODE     | NAME                                  | INCI NAME  |
|----------|---------------------------------------|--|
| 3447ORG  | Organic Blueberry in Glycerin         | Vaccinium Corymbosum (Blueberry) Fruit Extract                     |
| 3222ORG  | Organic Burdock Root in Glycerin      | Arctium Lappa Root Extract   |
| 3230ORG  | Organic Chamomile in Glycerin         | Chamomilla Recutita (Matricaria) Flower Extract                    |
| 3244CORG | Organic Cranberry in Glycerin         | Vaccinium Macrocarpon (Cranberry) Fruit Extract                    |
| 3252ORG  | Organic Echinacea Flower in Glycerin  | Echinacea Angustifolia Root Extract/<br>Echinacea Purpurea Extract |
| 3253ORG  | Organic Elder Flower in Glycerin      | Sambucus Nigra Flower Extract                                      |
| 3264ORG  | Organic Ginger Root in Glycerin       | Zingiber Officinale (Ginger) Root Extract                          |
| 3272ORG  | Organic Horehound in Glycerin         | Marrubium Vulgare Extract  |
| 3285ORG  | Organic Lavender in Glycerin          | Lavandula Angustifolia (Lavender) Flower Extract                   |
| 3288ORG  | Organic Lemon Balm in Glycerin        | Melissa Officinalis Extract  |
| 3367ORG  | Organic Nettle Leaf in Glycerin       | Urtica Dioica (Nettle) Leaf Extract                                |
| 3309ORG  | Organic Orange Peel in Glycerin       | Citrus Aurantium Dulcis (Orange) Peel Extract                      |
| 3311ORG  | Organic Parsley in Glycerin           | Petroselinum Crispum (Parsley) Leaf Extract                        |
| 3313ORG  | Organic Passionflower in Glycerin     | Passiflora Incarnata Flower Extract                                |
| 3315ORG  | Organic Peppermint Leaf in Glycerin   | Mentha Piperita (Peppermint) Leaf Extract                          |
| 3453ORG  | Organic Rhodiola in Glycerin          | Rhodiola Rosea Root Extract  |
| 3330ORG  | Organic Rosemary in Glycerin          | Rosmarinus Officinalis (Rosemary) Leaf Extract                     |
| 3351ORG  | Organic Wild Cherry Bark in Glycerin  | Prunus Serotina (Wild Cherry) Bark Extract                         |
| 3325ORG  | Organic White Willow Bark in Glycerin | Salix Alba (Willow) Bark Extract                                   |



# PERSONAL CARE OILS

|        |                                     |  |
|--------|-------------------------------------|--|
| 3686B  | Calendula in Olive Oil              | Calendula Officinalis Flower Extract & Olea Europaea (Olive) Fruit Oil   |
| 9825B  | Capsicum Floraceuticals™<br>100,000 | Capsicum Frutescens Resin & Zea Mays (Corn) Oil  |
| 9825SA | Capsicum in Sweet Almond Oil        | Capsicum Frutescens Resin & Prunus Amygdalus Dulcis (Sweet Almond) Oil   |
| 9826   | Carrot Floraceuticals™              | Daucus Carota Sativa ( carrot) Root Extract, Beta-Carotene, Tocopherol, Glycine Soja (Soybean) Oil & Zea Mays (Corn) Oil |
| 3689   | Chamomile 10:1 Sunflower Oil        | Chamomilla Recutita (Matricaria) Flower Extract & Helianthus Annuus (Sunflower) Seed Oil                                 |
| 3689C  | Chamomile in Olive Oil              | Chamomilla Recutita (Matricaria) Flower Extract & Olea Europaea (Olive) Fruit Oil  |
| 3689S  | Chamomile in Safflower Oil          | Chamomilla Recutita (Matricaria) Flower Extract & Carthamus Tinctorius (Safflower) Seed Oil                              |
| 3692C  | Comfrey in Olive Oil                | Symphytum Officinale Leaf Extract & Olea Europaea (Olive) Fruit Oil  |
| 3252C  | Echinacea in Olive Oil              | Echinacea Purpurea Flower/Leaf/Stem Extract & Olea Europaea (Olive) Fruit Oil  |
| 3712   | Green Tea in Safflower Oil          | Camellia Sinensis Leaf Extract & Carthamus Tinctorius (Safflower) Seed Oil   |
| 3285C  | Lavender in Olive Oil               | Lavandula Angustifolia (Lavender) Flower Extract & Olea Europaea (Olive) Fruit Oil                                       |
| 3285S  | Lavender in Safflower Oil           | Lavandula Angustifolia (Lavender) Flower Extract & Carthamus Tinctorius (Safflower) Seed Oil                             |
| 3683B  | Mexican Arnica in Olive Oil         | Heterotheca Inuloides Flower Extract & Olea Europaea (Olive) Fruit Oil   |
| 5186   | Oregano in Olive Oil                | Origanum Vulgare Leaf Oil & Olea Europaea (Olive) Fruit Oil  |
| 3818A  | Rosemary Infused Oil                | Rosmarinus Officinalis (Rosemary) Leaf, Olea Europaea (Olive) Fruit Oil & Alcohol Denat.                                 |
| 3709   | St. John's Wort in Safflower Oil    | Hypericum Perforatum Flower/Leaf/Stem Extract & Carthamus Tinctorius (Safflower) Seed Oil                                |
| 3923   | Thyme in Olive Oil                  | Thymus Vulgaris (Thyme) Leaf Extract & Olea Europaea (Olive) Fruit Oil   |





# BIO-BOTANICA® EXTRACTS IN HEMP SEED OIL (CANNABIS SATIVA SEED OIL)



Bio-Botanica® has developed a new line of extracts in Hemp Seed Oil for skin and hair applications. We have extracted plant material directly into Hemp Seed Oil to create products that combine the benefits of each botanical component synergistically with the Hemp Seed Oil, to attain optimum efficacy.

**These extracts amplify the benefits of the hemp seed oil.**

|         |                                    |  |
|---------|------------------------------------|--|
| 3160HSO | Aloe Vera in Hemp Seed Oil         | <i>Aloe Barbadosis</i> Leaf Extract, Maltodextrin      |
| 3213HSO | Bladderwrack in Hemp Seed Oil      | <i>Fucus Vesiculosus</i> Extract                       |
| 3225HSO | Capsicum in Hemp Seed Oil          | <i>Capsicum Annuum</i> Fruit Extract                   |
| 3224HSO | Calendula Flower in Hemp Seed Oil  | <i>Calendula Officinalis</i> Flower Extract            |
| 9870HSO | Centipedia in Hemp Seed Oil        | <i>Centipeda Cunninghamii</i> Extract                  |
| 3230HSO | Chamomile Flower in Hemp Seed Oil  | <i>Chamomilla Recutita</i> (Matricaria) Flower Extract |
| 3237HSO | Comfrey Leaf in Hemp Seed Oil      | <i>Symphytum Officinale</i> Leaf Extract               |
| 3245HSO | Cucumber in Hemp Seed Oil          | <i>Cucumis Sativus</i> (Cucumber) Fruit Extract        |
| 3260HSO | Fenugreek Seed in Hemp Seed Oil    | <i>Trigonella Foenum-Graecum</i> Seed Extract          |
| 3282HSO | Kelp in Hemp Seed Oil              | <i>Ascophyllum Nodosum</i> Extract                     |
| 3201HSO | Mexican Arnica in Hemp Seed Oil    | <i>Heterotheca Inuloides</i> Flower Extract            |
| 3309HSO | Orange Peel in Hemp Seed Oil       | <i>Citrus Aurantium Dulcis</i> (Orange) Peel Extract   |
| 3307HSO | Oat Seed in Hemp Seed Oil          | <i>Avena Sativa</i> (Oat) Seed Extract                 |
| 3329HSO | Rose Hips in Hemp Seed Oil         | <i>Rosa Canina</i> Fruit Extract                       |
| 3337HSO | Slippery Elm Bark in Hemp Seed Oil | <i>Ulmus Fulva</i> Bark Extract                        |

#### **Benefits For the Skin include:**

- May calm temporary skin irritations
- Rejuvenates the skin
- Provides long lasting moisture
- Provides some protection against environmental factors

#### **Benefits For the Hair include:**

- Prevents water loss and injects moisture into the hair and scalp
- Helps enhance the growth of hair on the scalp in through the Omega 3, Omega 6 and Omega 9 fatty acids
- Strengthens hair to prevent breakage
- Nourishes the hair follicles for better hair growth.



# PURESTEROL®

**“THE MIRACLE ROOT” U.S. PATENT # 7,658,955  
PUERARIA MIRIFICA  
THE NAME MIRIFICA IN LATIN MEANS MIRACLE.**

For more than 500 years people in Southeast Asia have been using the root of the “White Kwao Krua” for its anti-aging properties. Folklore goes on to say that the root is a “fountain of youth” for aged men and women. It serves as an anti-wrinkle agent for aged and wrinkled skin, darkens white hair and increases hair growth, alleviates cataract problems, helps with memory loss, appetite and sleep disorders, increases energy, vigor and blood circulation.

**PUERARIA MIRIFICA CONTAINS THREE DIFFERENT TYPES OF PHYTOESTROGENS:**

Pueraria mirifica contains:

1. **Miroestrol** and **Deoxymiroestrol** group
2. **Isoflavonoid** group
3. **Coumestan** group

**PUERARIA MIRIFICA (PURESTEROL®) HAS BEEN FULL TESTED FOR SAFETY AND EFFICACY.**

visit: [www.PuresterolPM.com](http://www.PuresterolPM.com)

#### **USES:**

- (1) Pueraria Mirifica has been shown to be a promising support herb for menopausal women.
- (2) Broad-range cosmetic and personal care applications include anti-aging creams, breast creams, eye gels, night creams, day creams and body gels, etc.

Available as a powder #4523 or as a liquid #5529 Standardized extract containing >20mg Microestrol/100g.

**ADDITIONAL LITERATURE AND TECHNICAL DATA SHEET AVAILABLE ON REQUEST.**





# SUPER FRUIT BLEND

AN EXTRACT BLEND OF SUPERFRUIT BOTANICALS

| NAME:       | INCI NAME:                           | CAS NUMBER:                 | EINECS NUMBER: |
|-------------|--------------------------------------|-----------------------------|----------------|
| Goji        | Lycium Barbarum Fruit Extract        | 85085-46-7                  | 285-375-0 (I)  |
| Coffee      | Coffea Arabica (Coffee) Seed Extract | 84650-00-0                  | 283-481-1 (I)  |
| Noni        | Morinda Citrifolia Fruit Extract     | 84929-68-0                  | 284-551-4 (I)  |
| Pomegranate | Punica Granatum Juice Extract        | 84961-57-9                  | 284-646-0 (I)  |
| Mangosteen  | Garcinia Mangostana Fruit Extract    | 90045-25-3                  | 289-884-9 (I)  |
| Green Tea   | Camellia Sinensis Leaf Extract       | 84650-60-2                  | 283-519-7 (I)  |
| Acai        | Euterpe Oleracea Fruit Extract       | 879496-95-4,<br>906351-38-0 | N/A            |

**PARTS USED:** Fruit (Goji, Acai, Noni, Pomegranate, Mangosteen)  
Seed (Coffee)  
Leaf (Green Tea)

**PROPERTIES:** Super Fruit Blend is a combination of some of the best skincare components. Each ingredient has a plethora of beneficial properties as well as high antioxidant content.

**BASES AVAILABLE:** Various

**RECOMMENDED USE:** Super Fruit blend is an excellent addition to many types of personal care products looking for an antioxidant boost.

**GENERAL SPECIFICATIONS:**

**APPEARANCE:** Cloudy

**COLOR:** Amber yellow to amber brown

**ODOR:** Characteristic, herbal

**PH:** 3.2-5.5

**SOLUBILITY:** Partially soluble in water

**SHELF LIFE:** 24 months unopened

#3438



# BIO-FLAVONOIDS, FE

A Hydro-Alcoholic Extract Blend of Lemon Peel, Orange Peel and Rose Hips

| NAME        | INCI NAME  | CAS NUMBER           | EINECS NUMBER               |
|-------------|--|----------------------|-----------------------------|
| Lemon Peel  | Citrus Limon<br>(Lemon) Peel Extract             | 85085-28-584929-31-7 | 284-515-8 (I) 285-359-3 (I) |
| Orange Peel | Citrus Aurantium Dulcis<br>(Orange) Peel Extract | N/A                  | N/A                         |
| Rose Hips   | Rosa Canina Fruit Extract                        | 84696-47-9           | 283-652-0 (I)               |

**PART USED:** Bio-flavonoids

**PRODUCT DESCRIPTION:** Bioflavonoids (or flavonoids) are the component of plants that are involved in pigmentation, UV filtration, and nitrogen fixation. Bioflavonoids are well known for their antioxidant activity which makes them a highly desirable component for personal care products. This product, Bio-Flavonoids, utilizes components from the dog rose flower, lemon peel, and orange peel in order to maximize the bioflavonoid content of the product.

**PRODUCT DESCRIPTION:** Bio-Flavonoids are an excellent addition to a large variety of types of formulations in the personal care industry. It can be added to boost the antioxidant content of just about any personal care product such as a shampoo, conditioner, body wash, face wash, lotions and in many other types of applications.

**SUGGESTED USE LEVEL:** 0.5% - 3.0%

**COLOR:** Brown to dark brown

**PH:** 3.5 - 5.5

**ODOR:** Characteristic, aromatic, herbal

**SOLUBILITY:** Soluble in water

**SHELF LIFE:** 24 months Unopened

#5201





# SUPTRAPEIN®

**ALL NATURAL PRESERVATIVE FOR  
MULTIPLE PERSONAL CARE & COSMETIC APPLICATIONS,  
CRÈMES, SHAMPOOS, SOAPS, LOTIONS, ETC.**

A proprietary synergistic blend of botanical extracts and essential oils that has the ability to inhibit a wide range of microorganisms.

## INCI NAME:

|  |  |
|--|--|
| Thymol   | CAS No: 89-83-8                          |
| Mentha Piperita (Peppermint) Oil               | CAS No: 8006-90-4, 84082-70-2            |
| Origanum Vulgare Leaf Oil                      | CAS No: 84012-24-8                       |
| Rosmarinus Officinalis (Rosemary) Leaf Oil     | CAS No: 8000-25-7                        |
| Lavandula Angustifolia (Lavender) Oil          | CAS No: 8000-28-0                        |
| Cinnamomum Zeylanicum Bark Oil                 | CAS No: 84649-98-9                       |
| Citrus Limon (Lemon) Peel Oil                  | CAS No: 8008-56-8, 8020-19-7, 84929-31-7 |
| Hydrastis Canadensis (Goldenseal) Root Extract | CAS No: 84603-60-1                       |
| Olea Europaea (Olive) Leaf Extract             | CAS No: 8060-29-5                        |
| Cinnamal                                       | CAS No: 104-55-2                         |

**APPEARANCE:** Liquid

**COLOR:** Amber yellow

**AROMA:** Characteristic, aromatic, pungent

**EFFICACY:** Anti-bacterial and anti-fungal

**RECOMMENDED USE LEVEL:** 0.45%

**RECOMMENDED TEMPERATURE RANGE:** 20°- 30°C (68°- 80°F)

**METHOD OF MANUFACTURING:** Extraction of the proprietary mixture of herbs by

\*Bio-Chelation® & blending

**SOLVENT FOR EXTRACTION:** Alcohol and water

**ADDITIVES:** None

**SOLUBILITY:** Mostly soluble in oils, fats and non-polar solvents

**RECOMMENDED STORAGE:** Store in a cool dry place, away from excessive heat or freezing temperatures

**RETEST DATE:** 24 months (unopened)

## SPECIFICATIONS:

**SPECIFIC GRAVITY:** 0.850-1.100 (TM009/USP <841>)

**#8570**

US Patent # US 7,214,392



# BIO-SAPONINS™

**THE NATURAL SURFACE ACTIVE AGENT**

Natural detergent, foaming agent and emulsifier

Saponins are naturally occurring high-molecular-weight glycosides with distinct foaming characteristics. They are found in many plants, but get their name from the soapwort plant (saponaria), of which the root was historically used as soap. The name saponin is derived from the Latin word sapo, which means soap.

Bio-Saponins™ is a propriety blend of Sarsaparilla Root, Wild Yam Root, Quillaja Root and Yucca Root.

## INCI NAME:

| INCI NAME:                                       | CAS NUMBER: | EINECS NUMBER: |
|--|-------------|----------------|
| <i>Yucca Schidigera</i> Root Extract             | N/A         | N/A            |
| <i>Quillaja Saponaria</i> Bark Extract           | 68990-67-0  | 273-620-4 (I)  |
| <i>Smilax Aristolochiaefolia</i> Root Extract    | 97404-52-9  | N/A            |
| <i>Dioscorea Villosa</i> (Wild Yam) Root Extract | 90147-49-2  | 290-441-7 (I)  |

## APPLICATIONS:

Saponins are high-foaming agents and therefore excellent to use when natural surface active compounds are required. Saponins are excellent when used in soaps, shampoos, creams, lotions, shaving products, body washes, etc. Bio-Saponins™ is also ideal for natural toothpaste.

## STUDIES:

Surface tension, Foaming Index and Foam Stability were compared to Tween 80 & SLS (Sodium Lauryl-Sulfate)

Surface tension – Similar to Tween 80 and slightly less than SLS.

Foaming Index – Better than Tween 80 and SLS.

Foaming Stability – Better than Tween 80 and SLS.

(See additional literature for more information)

## TESTING:

Bio-Saponins™ has been evaluated for Ocular Irritancy Potential with the Hen's Egg Test, utilizing the ChorioAllantoic Membrane (HET-CAM). Under the conditions of the test, the results indicated that the product at 10% showed practically no ocular irritation potential. (A copy of the test results is available upon request)

Additional literature on Bio-Saponins™ available on request.



**#3155A**





# PHYTOPLENOLIN® ZEAPLENOLIN™

**PHYTOPLENOLIN®** is an extract from the Australian native plant known as Centipeda Cunninghamii. The plant has been used by Australian aborigines for many years and is highly regarded for its healing properties.

**Also available in Zemea® as Zeaplenolin™**

The active components in the extract (Sesquiterpene lactones) have shown to have outstanding cell renewal, anti-inflammatory and antimicrobial properties. Each delivers proven results for the fast and effective relief and treatment of skin conditions such as eczema, psoriasis, fungal infections of the feet, dermatitis, allergy rashes, windburn, sunburn or any dry skin complaint.

**INCI NAME:** Centipeda Cunninghamii Extract

**APPROVED FOR USE IN UNITED STATES AND AUSTRALIA**

**Stable In pH Range From 3.00-7.00**

**Completely Miscible With Water**

**SUGGESTED PRODUCT CATEGORIES:** Sunscreens, Creams, Lotions, Bar Soaps, Mouth Rinses

**RECOMMENDED USE LEVELS:** 0.1-1.0%

**APPEARANCE:** liquid

**COLOR:** light brown to brown

**AROMA:** characteristic, aromatic

**METHOD OF MANUFACTURING:** extraction by \*Bio-Chelation®

**SOLVENT FOR EXTRACTION:** Aqueous alcohol

**VEHICLE:** Butylene Glycol (CAS No. 107-88-0), USP Purified Water (CAS No. 7732-18-5)

**RECOMMENDED STORAGE:** store in a cool dry place, away from excessive heat or freezing temperatures

**SHELF LIFE:** 24 months unopened

## **SPECIFICATIONS:**

**RESIDUE:** <5.00% (16 hrs.@ 105°C)

**REFRACTIVE INDEX:** 1.3800-1.4100 (USPXXV <831>)

**SPECIFIC GRAVITY:** 1.0200-1.0450 (USPXXV <841>)

**PH:** 4.80 - 5.80 (USPXXV <791>)

## **MICROBIOLOGICAL: (USPXXV <61>)**

**TOTAL AEROBIC PLATE COUNT (TAPC):** <500 C.F.U./gm

**COMBINED YEAST & MOLD COUNT (CYM):** <200 C.F.U./gm

**STAPHYLOCOCCUS AUREUS:** Negative

**E. COLI:** Negative

**#9870L #9870LZB**



## BIO-BOTANICA® HAIR CARE COMPLEXES:

There are numerous botanical extracts that are known to provide strengthening properties and stimulate hair follicles that can be blended in to hair care products. We have provided a combination of these extracts in blends that we manufacture and which are targeted for specific use. These blends incorporate well into shampoos, conditioners and hair rinses.

### **5098 Neutral Henna FE:**

Lawsonia inermis Leaf Extract, Glycerin, Water & Alcohol. It can be used at levels of 1-5% in shampoos, rinses, conditioners and sprays to add highlights to the hair. It includes glycerin and water.

### **3152 Bio Dandra Plex:**

A blend of the extracts of Quassia Amara Wood Extract, Equisetum Arvense Extract, Juglans Nigra Shell Extract, Arctium Lappa Root Extract, Larrea Tridactata Extract, Geranium Maculatum Extract, Hamamelis Virginiana Leaf Extract, Lupulus Extract, Chamomilla Recutita (Matricaria) Flower Extract, Urtica Dioica Leaf Extract, Symphytum Officinale Leaf Extract & Glycerin. This blend was formulated with herbs traditionally known to control dandruff as well as condition and strengthen hair. As an aqueous solution it can be incorporated into ointments, shampoos, conditioners and hair rinses at levels of 1-5%. It includes glycerin and water.

### **3149 Nutra Plant Complex II:**

A blend of the extracts of Equisetum arvense Extract, Rosmarinus officinalis (Rosemary) Leaf Extract, Honey, Urtica dioica (Nettle) Leaf Extract, Chamomilla recutita (Matricaria) Flower Extract, Symphytum officinale Leaf Extract, Humulus lupulus (Hops) Extract, Lawsonia inermis (Henna) Flower/Fruit/Leaf Extract, Glycerin, Water & Alcohol. This blend was formulated for use in shampoos, hair rinses and conditioners to stimulate, strengthen and add highlights to hair. The usual levels of introduction is 1-5% in the aqueous phase. It includes glycerin.

### **3993 Folistim 2**

A blend of the extracts of Mentha Piperita Leaf Extract, Heterotheca Inuloides Flower Extract, Urtica Dioica Leaf Extract, Centella Asiatica Extract, Capsicum Frutescens Fruit Extract, Cochlearia Armoracia Root Extract, Glycerin & Water. This blend has been used in hair formulas to stimulate the hair follicles and consequently accelerate hair growth. When used at levels of 0.05 – 0.5% a noticeable tingling sensation has been reported. Applications include shampoos, conditioners and hair care tonics.



# FLORACEUTICAL®

Our Floraceuticals® are all natural extracts which are processed by isolating the active constituent desired from a plant. This scientific procedure ensures that the finished product reaches a specific percentage of the desired constituent.

|       |                                  |   |
|-------|----------------------------------|---|
| 9865  | American Ginseng Floraceutical®  | <i>Panax Quinquefolium Root Extract, Panax Ginseng Root Extract (Chinese), Butylene Glycol &amp; Water</i>                          |
| 9825B | Capsicum Floraceutical®          | <i>Capsicum Frutescens Resin &amp; Zea Mays (Corn) Oil</i>  |
| 9826  | Carrot Floraceutical®            | <i>Daucus Carota Sativa ( carrot) Root Extract, Beta-Carotene, Tocopherol, Glycine Soja (Soybean) Oil &amp; Zea Mays (Corn) Oil</i> |
| 9945A | Cat's Claw Floraceutical®        | <i>Uncaria Tomentosa Extract (Cat's Claw), Butylene Glycol &amp; Water</i>  |
| 9869A | Centella Floraceutical®          | <i>Centella Asiatica Extract, Butylene Glycol &amp; Water</i>   |
| 9831  | Chamomile Floraceutical®         | <i>Chamomilla Recutita (Matricaria) Flower Extract, Butylene Glycol &amp; Water</i>   |
| 9861A | Ginkgo Biloba Floraceutical®     | <i>Ginkgo Biloba Leaf Extract, Butylene Glycol &amp; Water</i>  |
| 9945  | Green Tea Floraceutical®         | <i>Camellia Sinensis Leaf Extract, Butylene Glycol, Water &amp; Caffeine</i>  |
| 9852  | Purple Coneflower Floraceutical® | <i>Echinacea Purpurea Flower/Leaf/Stem Extract, Echinacea Purpurea Root Extract, Butylene Glycol &amp; Water</i>                    |

# FRUITANICALS

|   |  |   |  |
|---|--|---|--|
|    | <b>ACAI FRUIT EXTRACT</b><br><i>Euterpe Oleracea Fruit Extract</i><br>*Not Available In BG/BIOBG |    | <b>LEMON PEEL EXTRACT</b><br><i>Citrus Medica Limonum (Lemon) Peel Extract</i>         |
|    | <b>APRICOT FRUIT EXTRACT</b><br><i>Prunus Armeicaca (Apricot) Fruit Extract</i>                  |    | <b>NONI FRUIT EXTRACT</b><br><i>Morinda Citrifolia Fruit Extract</i>                   |
|    | <b>AVOCADO FRUIT EXTRACT</b><br><i>Persea Gratissima (Avocado) Fruit Extract</i>                 |    | <b>ORANGE PEEL EXTRACT</b><br><i>Citrus Aurantium Dulcis (Orange) Peel Extract</i>     |
|    | <b>BLUEBERRY FRUIT EXTRACT</b><br><i>Vaccinium Corymbosum (Blueberry) Fruit Extract</i>          |    | <b>MANGO FRUIT EXTRACT</b><br><i>Mangifera Indica Fruit Extract</i>                    |
|    | <b>CRANBERRY FRUIT EXTRACT</b><br><i>Vaccinium Macrocarpon (Cranberry) Fruit Extract</i>         |    | <b>MANGOSTEEN FRUIT EXTRACT</b><br><i>Garcinia Mangostana Fruit Extract</i>            |
|    | <b>CUCUMBER FRUIT EXTRACT</b><br><i>Cucumis Sativus (Cucumber) Fruit Extract</i>                 |    | <b>PASSION FRUIT EXTRACT</b><br><i>Passiflora Edulis (Passionfruit) Fruit Extract</i>  |
|    | <b>COFFEE SEED EXTRACT</b><br><i>Coffea Arabica (Coffee) Seed Extract</i>                        |    | <b>PEACH LEAF EXTRACT</b><br><i>Prunus Persica (Peach) Leaf Extract</i>                |
|    | <b>ELDERBERRY FRUIT EXTRACT</b><br><i>Sambucus Nigra Fruit Extract</i>                           |    | <b>PEACH FRUIT EXTRACT</b><br><i>Prunus Persica (Peach) Fruit Extract</i>              |
|  | <b>GARCINIA FRUIT EXTRACT</b><br><i>Garcinia Cambogia Fruit Extract</i>                          |   | <b>PINEAPPLE FRUIT EXTRACT</b><br><i>Anasas Sativus (Pineapple) Extract</i>            |
|  | <b>GOJI FRUIT EXTRACT</b><br><i>Lycium Barbarum Fruit Extract</i><br>*Not Available In BG/BIOBG  |  | <b>POMEGRANATE FRUIT EXTRACT</b><br><i>Punica Granatum Juice Extract</i>               |
|  | <b>GRAPE SEED EXTRACT</b><br><i>Vitis Vinifera (Grape) Seed Extract</i>                          |  | <b>RED RASPBERRY LEAF EXTRACT</b><br><i>Rubus Idaeus (Raspberry) Leaf Extract</i>      |
|  | <b>GRAPEFRUIT SEED EXTRACT</b><br><i>Citrus Paradisi (Grapefruit) Seed Extract</i>               |  | <b>STRAWBERRY FRUIT EXTRACT</b><br><i>Fragaria Ananassa (Strawberry) Fruit Extract</i> |
|  | <b>GUARANA SEED EXTRACT</b><br><i>Paullinia Cupana Seed Extract</i>                              |   |  |

**Our Line of Fruit Extracts are available in BioBG, Zemea®, Glycerin, Propylene Glycol and Butylene Glycol. Our Fruit Extracts bring an aura of enchantment to the name and label of a product enhancing each important characteristic found in each fruit.**



# "WHERE SCIENCE BRINGS

## SKIN

### ACNE

Milk Thistle, Echinacea, Witch Hazel, Calendula, Burdock, Hops, Lavender, Arnica, Lemon Balm, White Willow, Papaya, Rosemary, Slippery Elm, Chamomile, Juniper Berries

### AFTER SHAVE

Aloe Vera, Chamomile, Calendula, Comfrey, Slippery Elm, Fenugreek, Cucumber, Oats, Marshmallow, Milk Thistle, Witch Hazel, Ginkgo Biloba

### ANTI-BACTERIAL

Grapefruit, Echinacea, Lavender, Rosemary, Lemon, Sage, Bayberry, Uva Ursi, Aloe Vera, Green Tea

### ANTI-INFLAMMATORY

Calendula, Passionfruit, Cucumber, Green Tea, Nopal Cactus, White Willow Bark, Thyme, Burdock Root, Horsetail, Yarrow, Pineapple

### ANTI-OXIDANTS

Green Tea, Superfruit Blend, Acai, Goji, Blueberry, Pomegranate, Pumpkin, Milk Thistle, Kelp, Coffee Seed, Goji, Nopal Cactus

### ANTISEPTIC

Echinacea, Lavender, Lemon, Sage, Thyme, Grapefruit, Hops, Birch, Yarrow, Chamomile, Rosemary, Calendula, Garlic, Black Walnut, Myrrh, Cinnamon

### ASTRINGENTS

Arnica, Bayberry, Witch Hazel, Myrrh, Plantain, Lemon Peel, Raspberry, Rose Hips, Rosemary, Comfrey, Yarrow, Nettles, Horsechestnut, Corn Flower, Bilberry, Hawthorn Berries

### CELLULITE

Grapefruit, Kelp, Bladderwrack, Gotu Kola, Rosemary, Bayberry

### CLEANSERS

Papaya, Burdock, Bio-Saponins™, Lemon Peel, Lavender, White Willow, Avocado, Irish moss, Rose Hips

### DEODORANTS

Rosemary, Orange Peel, Citrus Bio-Flavonoid, Rose Hips, Witch Hazel, Chaparral, Parsley

### DRY SKIN

Apricot, Cleavers, Comfrey, Burdock, Red Clover, Goldenseal, Nettles, Yellow Dock, Sarsaparilla, Thyme, White Willow

### EMOLLIENTS / MOISTURIZING

Aloe Vera, Comfrey, Slippery Elm, Fenugreek, Oats, Orange Peel, Rose Hips, Cucumber, Calendula, Chamomile, Kelp, Bladderwrack

### HEALING

Aloe, Comfrey, Horsetail Grass, Centella, Yarrow, Green Tea, Yucca, Chamomile, Gotu Kola, Chickweed

### SKIN, DRY

Aloe Vera, Comfrey, Chamomile, Red Clover, Dandelion, Elder Flowers, Slippery Elm Bark, Kelp, Bladderwrack, Licorice, Oats, Orange Peel, Citrus Bio-flavonoids, Peach, Evening Primrose, Yarrow, Parsley, Cleavers, Arnica, Ginseng

### SKIN, OILY

Cucumber, Dandelion, Fennel, Lavender, Lemon, Grapefruit, Lemon Grass, Rose Hips, Witch Hazel

### SOOTHING & CALMING

Echinacea, Corn Flower, Comfrey, Calendula, Slippery Elm, Chamomile, St. John's Wort, Cucumber, Sage, Green Tea, Gotu Kola, Hawthorn Berries, Licorice, Aloe Vera, Oats, Passionfruit

# OUT THE BEST OF NATURE™

### SUNBURN

Aloe Vera, Calendula, Lemon Peel, Capsicum, Nettles, Slippery Elm, Comfrey, Witch Hazel, Kelp, Bladderwrack

### UNDER EYE CARE

Chamomile, Cucumber, Eyebright, Green Tea, Corn Flower, Catnip, Wild Yam, Ginseng, Ginkgo Biloba, Pomegranate

### VARICOSE

Golden Seal, Capsicum, Mullein, Horsechestnut, Comfrey, Calendula, Hawthorn, Witch Hazel

### WOUNDS

Milk Thistle, Chamomile, Plantain, Comfrey, Chickweed, Golden Seal, St. John's Wort, Arnica, Calendula, Aloe Vera, Yarrow, Green Tea

## HAIR

### ANTI-DANDRUFF

Artichoke Leaf, Chamomile, Lemon Balm, Nettles, Witch Hazel, Orange Peel, Rosemary, White Willow, Bio-Saponins™, Chaparral, Thyme, Catnip

### BLONDE HAIR

Golden Seal, Chamomile, Calendula, Oregon Grape, Grapefruit, Mullein Flowers, Elder Flowers, Lemon Peel

### BRUNETTE

Sage, Chamomile, Rosemary, Black Walnut, Nettles, Raspberry, Neutral Henna

### RED HAIR

Chamomile, Hibiscus, Calendula, Pomegranate, Acai

### HAIR, DARK

Chaparral, Nettles, Chamomile, Thyme, Sage, Raspberry, Black Walnut, Red Raspberry

### HAIR, Dry

Chamomile, Red Clover, Horsetail Grass, Comfrey Root, Elder Flowers, Peach Leaf, Rosemary, Sage, Kelp, Fenugreek, Dandelion, Hops

### HAIR, TO ADD SHEEN

Chamomile, Yarrow, Thyme, Rosemary, Sage, Raspberry, Lemon Peel

### HAIR, SPLIT ENDS

Horsetail Grass, Comfrey, Fenugreek, Rosemary, Echinacea, Lavender, Olive, Horsetail,

### HAIR STIMULANTS

Capsicum, Birch, White Willow Bark, Arnica, Alfalfa, Burdock Root, Saw Palmetto, Avocado, Catnip Herb, Ginkgo Biloba, Ginseng Root

## NAILS

### NAILS

Horsetail Grass, Comfrey, Calendula, Aloe Vera, Chamomile, Yarrow, Yucca

\*NOTE: The following suggested uses of botanicals are presented solely for educational purposes. We accept no liability for the results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to run their own tests to determine safety and suitability of each such product or product combination of their own purposes. Unless otherwise agreed in writing, we sell the products without warranty, and buyer and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products.



NOTES

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