

# 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 'holistic balance' approach to botanical authentication are numerous and include:

- Detection of botanical adulterants (purposeful or accidental).
- Analysis of marker compound(s), both inqualitative 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.

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

## 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.'



# ZEA-BOTANICALS®

## NATURALLY DERIVED PLANT EXTRACTS

### WITH ZEMEA®



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

Zemea® is a natural and highly pure colorless glycol, derived from a sustainable and renewable corn sugar fermentation process. Zemea® propanediol 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® is seeing rapid popularity. Derived from corn sugar fermentation, Zemea® 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® is a registered trademark of DuPont Tate & Lyle Bio Products.

\*Indicates Fruitarian Extract

Code	ZEA-BOTANICALS®	INCI NAME - (Propanediol and Water)
3437ZB	ACAI ZEA-BOTANICALS**	<i>Euterpe Oleracea</i> Fruit Extract
3203ZB	ALFALFA LEAF ZEA-BOTANICALS®	<i>Medicago Sativa</i> (Alfalfa) Leaf Extract
3160ZB	ALOE VERA GEL ZEA-BOTANICALS®	<i>Aloe Barbadosensis</i> Leaf Juice
3204AZB	ANGELICA ROOT ZEA-BOTANICALS®	<i>Angelica Archangelica</i> Root Extract
3201ZB	ARNICA FLOWER ZEA-BOTANICALS®	<i>Heterotheca Inuloides</i> Flower Extract
3347ZB	ARTICHOKE LEAF ZEA-BOTANICALS®	<i>Cynara Scolymus</i> (Artichoke) Leaf Extract
3168ZB	ASHWAGANDHA ROOT ZEA-BOTANICALS®	<i>Withania Somnifera</i> Root Extract
3310ZB	ASTRAGALUS ROOT ZEA-BOTANICALS®	<i>Astragalus Membranaceus</i> Root Extract
3995ZB	AVOCADO ZEA-BOTANICALS**	<i>Persea Gratissima</i> (Avocado) Fruit Extract
3208ZB	BARBERRY ROOT ZEA-BOTANICALS®	<i>Berberis Vulgaris</i> Root Extract
3209ZB	BAYBERRY BARK ZEA-BOTANICALS®	<i>Myrica Cerifera</i> (Bayberry) Bark Extract
3209AZB	BEE POLLEN GRANULES ZEA-BOTANICALS®	Pollen Extract
3210CZB	BILBERRY ZEA-BOTANICALS®	<i>Vaccinium Myrtillus</i> Fruit Extract
3210ZB	BIRCH LEAF ZEA-BOTANICALS®	<i>Betula Alba</i> Leaf Extract
3211ZB	BLACK COHOSH ROOT ZEA-BOTANICALS®	<i>Cimicifuga Racemosa</i> Root Extract
3212ZB	BLACK WALNUT HULLS ZEA-BOTANICALS®	<i>Juglans Nigra</i> (Black Walnut) Shell Extract
3213ZB	BLADDERWRACK FROND ZEA BOTANICALS™	<i>Fucus Vesiculosus</i> Extract
3214ZB	BLESSED THISTLE HERB ZEA-BOTANICALS®	<i>Carbenia Benedicta</i> Extract
3216ZB	BLUE COHOSH ROOT ZEA-BOTANICALS®	<i>Caulophyllum Thalictroides</i> Root Extract
3218ZB	BLUE VERVAIN HERB ZEA-BOTANICALS®	<i>Verbena Officinalis</i> Extract
3447ZB	BLUEBERRY EXTRACT ZEA-BOTANICALS**	<i>Vaccinium Corymbosum</i> Fruit
3215ZB	BLUEBERRY LEAF ZEA-BOTANICALS®	<i>Vaccinium Angustifolium</i> (Blueberry) Leaf Extract
3220ZB	BONESET HERB ZEA-BOTANICALS®	<i>Eupatorium Purpureum</i> Flower/Leaf/Stem Extract
3417ZB	BOSWELLIA ZEA-BOTANICALS®	<i>Boswellia Serrata</i> Extract
3312ZB	BUPLEURUM ROOT ZEA-BOTANICALS®	<i>Bupleurum Falcatum</i> Root Extract
3222ZB	BURDOCK ROOT ZEA-BOTANICALS®	<i>Arctium Lappa</i> Root Extract
3223ZB	CACTUS GRANDIFLORUS FLOWER ZEA-BOTANICALS®	<i>Cereus Grandiflorus</i> (Cactus) Flower Extract
3224ZB	CALENDULA FLOWER (MARIGOLD) ZEA-BOTANICALS®	<i>Calendula Officinalis</i> Flower Extract
3225ZB	CAPSICUM ZEA-BOTANICALS®	<i>Capsicum Annuum</i> Fruit Extract
3452ZB	CARROT EXTRACT ZEA-BOTANICALS®	<i>Daucus Carota Sativa</i> (Carrot) Root Extract
3596ZB	CASCARA SAGRADA BARK ZEA BOTANICALS™	<i>Rhamnus Purshiana</i> Bark Extract
3227BZB	CATNIP HERB ZEA-BOTANICALS®	<i>Nepeta Cataria</i> Extract
9945AZB	CAT'S CLAW BARK ZEA-BOTANICALS®	<i>Uncaria Tomentosa</i> Bark Extract
3228ZB	CELERY SEED ZEA-BOTANICALS®	<i>Apium Graveolens</i> (Celery) Seed Extract
3230ZB	CHAMOMILE FLOWER ZEA-BOTANICALS®	<i>Chamomilla Recutita</i> (Matricaria) Flower Extract

3232ZB	CHAPARRAL HERB ZEA-BOTANICALS*	<i>Larrea Divaricata</i> Extract
3234ZB	CHICKWEED HERB ZEA-BOTANICALS*	<i>Stellaria Media</i> (Chickweed) Extract
3235ZB	CINNAMON BARK ZEA-BOTANICALS*	<i>Cinnamomum Cassia</i> Bark Extract
3236AZB	CLEAVERS HERB ZEA-BOTANICALS*	<i>Galium Aparine</i> Extract
3314ZB	CODONOPSIS ROOT ZEA-BOTANICALS*	<i>Codonopsis Lanceolata</i> Root Extract
3172ZB	COFFEE SEED ZEA-BOTANICALS**	<i>Coffea Arabica</i> (Coffee) Seed Extract
3236ZB	COLTSFOOT LEAF ZEA-BOTANICALS*	<i>Tussilago Farfara</i> (Coltsfoot) Leaf Extract
3237ZB	COMFREY LEAF ZEA-BOTANICALS*	<i>Symphytum Officinale</i> Leaf Extract
3238ZB	COMFREY ROOT ZEA-BOTANICALS*	<i>Symphytum Officinale</i> Root Extract
3241ZB	CORN FLOWER ZEA-BOTANICALS*	<i>Centaurea Cyanus</i> Flower Extract
3242ZB	CORNSILK ZEA-BOTANICALS*	<i>Zea Mays</i> (Corn) Silk Extract
3243ZB	COUCHGRASS RHIZOME ZEA BOTANICALS**	<i>Agropyron Repens</i> Root Extract
3244CZB	CRANBERRY ZEA-BOTANICALS*	<i>Vaccinium Macrocarpon</i> (Cranberry) Fruit Extract
3245ZB	CUCUMBER ZEA-BOTANICALS**	<i>Cucumis Sativus</i> (Cucumber) Fruit Extract
3246ZB	DAMIANA LEAF ZEA-BOTANICALS*	<i>Turnera Diffusa</i> Leaf Extract
3248ZB	DANDELION ROOT ZEA-BOTANICALS*	<i>Taraxacum Officinale</i> (Dandelion) Root Extract
3249ZB	DEVIL'S CLAW ROOT ZEA-BOTANICALS*	<i>Harpagophytum Procumbens</i> Root Extract
3251ZB	DONG QUAI (CHINESE ANGELICA) ROOT ZEA-BOTANICALS*	<i>Angelica Polymorpha Sinensis</i> Root Extract
3252ZB	ECHINACEA ZEA-BOTANICALS*	<i>Echinacea Angustifolia</i> Root / <i>Echinacea Purpurea</i> Extract
3254ZB	ELDER BERRY ZEA-BOTANICALS**	<i>Sambucus Nigra</i> Fruit Extract
3253ZB	ELDER FLOWER ZEA-BOTANICALS*	<i>Sambucus Nigra</i> Flower Extract
3255ZB	ELECAMPANE ROOT ZEA-BOTANICALS*	<i>Inula Helenium</i> Extract
3266ZB	ELEUTHERO ROOT ZEA-BOTANICALS*	<i>Acanthopanax Senticosus</i> (Eleuthero) Root Extract
3256ZB	EVENING PRIMROSE FLOWER ZEA-BOTANICALS*	<i>Oenothera Biennis</i> (Evening Primrose) Flower Extract
3257ZB	EYEBRIGHT HERB ZEA-BOTANICALS*	<i>Euphrasia Officinalis</i> Extract
3259ZB	FENNEL SEED ZEA-BOTANICALS*	<i>Foeniculum Vulgare</i> (Fennel) Seed Extract
3260ZB	FENUGREEK SEED ZEA-BOTANICALS*	<i>Trigonella Foenum-Graecum</i> Seed Extract
3260AZB	FEVERFEW HERB ZEA-BOTANICALS*	<i>Chrysanthemum Parthenium</i> (Feverfew) Extract
3261ZB	FO TI ROOT (CURED) ZEA-BOTANICALS*	<i>Polygonum Multiflorum</i> Cured Root Extract
3262ZB	GARLIC BULB ZEA-BOTANICALS*	<i>Allium Sativum</i> (Garlic) Bulb Extract
3269ZB	GARCINIA FRUIT ZEA-BOTANICALS**	<i>Garcinia Cambogia</i> Fruite Extract
3263ZB	GENTIAN ROOT ZEA-BOTANICALS*	<i>Gentiana Lutea</i> Root Extract
3264ZB	GINGER ROOT ZEA-BOTANICALS*	<i>Zingiber Officinale</i> (Ginger) Root Extract
3059ZB	GINKGO LEAF ZEA-BOTANICALS*	<i>Ginkgo Biloba</i> Leaf Extract
3265CZB	GINSENG, AMERICAN ROOT ZEA BOTANICALS**	<i>Panax Quinquefolium</i> Root Extract

3317ZB	GINSENG, WHITE CHINESE ROOT ZEA-BOTANICALS*	<i>Panax Ginseng</i> Root Extract
3350ZB	GOJI ZEA-BOTANICALS**	<i>Lycium Barbarum</i> Fruit Extract
3268ZB	GOLDENSEAL ROOT ZEA-BOTANICALS*	<i>Hydrastis Canadensis</i> (Goldenseal) Root Extract
3424ZB	GOTU KOLA ZEA-BOTANICALS*	<i>Centella Asiatica</i> Extract
3413ZB	GRAPE SEED ZEA-BOTANICALS**	<i>Vitis Vinifera</i> (Grape) Seed Extract
3199ZB	GRAPEFRUIT SEED ZEA-BOTANICALS**	<i>Citrus Paradisi</i> (Grapefruit) Seed Extract
3345ZB	GREEN TEA LEAF ZEA-BOTANICALS*	<i>Camellia Sinensis</i> Leaf Extract
3278ZB	GROUND IVY ZEA-BOTANICALS*	<i>Glechoma Hederacea</i> Extract
3346ZB	GUARANA SEED ZEA-BOTANICALS**	<i>Paullinia Cupana</i> Seed Extract
3320ZB	GYMNEMA LEAF ZEA-BOTANICALS*	<i>Gymnema Sylvestre</i> Leaf Extract
3270ZB	HAWTHORN BERRY ZEA-BOTANICALS*	<i>Crataegus Monogyna</i> Fruit Extract
3629ZB	HIBISCUS FLOWER ZEA-BOTANICALS*	<i>Hibiscus Sabdariffa</i> Flower Extract
3362ZB	HOLY BASIL LEAF ZEA-BOTANICALS*	<i>Ocimum Sanctum</i> Leaf Powder
3482ZB	HONEY ZEA-BOTANICALS*	Honey
3271ZB	HOPS STROBILE ZEA-BOTANICALS*	<i>Humulus Lupulus</i> (Hops) Cone Extract
3272ZB	HOREHOUND HERB ZEA-BOTANICALS*	<i>Marrubium Vulgare</i> Extract
3274ZB	HORSECHESTNUT SEED ZEA-BOTANICALS*	<i>Aesculus Hippocastanum</i> (Horse Chestnut) Seed Extract
3273ZB	HORSETAIL HERB ZEA-BOTANICALS*	<i>Equisetum Arvense</i> Extract
3275ZB	HYDRANGEA ROOT ZEA-BOTANICALS*	<i>Hydrangea Arborescens</i> Root Extract
3276ZB	HYSSOP HERB ZEA-BOTANICALS*	<i>Hyssopus Officinalis</i> Flower Extract
3277ZB	IRISH MOSS ZEA-BOTANICALS*	<i>Chondrus Crispus</i> Extract
3281ZB	JUNIPER BERRY ZEA-BOTANICALS*	<i>Juniperus Communis</i> Fruit Extract
3281AZB	KAVA KAVA ROOT ZEA-BOTANICALS*	<i>Piper Methysticum</i> Root Extract
3282ZB	KELP ZEA-BOTANICALS*	<i>Ascophyllum Nodosum</i> Extract
3283ZB	KOLA NUT ZEA-BOTANICALS*	<i>Cola Nitida</i> Seed Extract
3285ZB	LAVENDER FLOWER ZEA-BOTANICALS*	<i>Lavandula Angustifolia</i> (Lavender) Flower Extract
3288ZB	LEMON BALM HERB ZEA-BOTANICALS*	<i>Melissa Officinalis</i> Extract
3287ZB	LEMON GRASS ZEA-BOTANICALS*	<i>Cymbopogon Citratus</i> Extract
3289ZB	LEMON PEEL ZEA-BOTANICALS**	<i>Citrus Limon</i> (Lemon) Peel Extract
3291ZB	LICORICE ROOT ZEA-BOTANICALS*	<i>Glycyrrhiza Glabra</i> (Licorice) Root Extract
3293ZB	LINDEN FLOWER ZEA-BOTANICALS*	<i>Tilia Europaea</i> Flower Extract
3294ZB	LOBELIA HERB ZEA-BOTANICALS*	<i>Lobelia Inflata</i> Extract
3321ZB	LOMATIUM ROOT ZEA-BOTANICALS*	<i>Lomatium Dissectum</i> Root Extract
3408ZB	MANGO ZEA-BOTANICALS**	<i>Mangifera Indica</i> Fruit (Mango) Juice
3445ZB	MANGOSTEEN ZEA-BOTANICALS**	<i>Garcinia Mangostana</i> Fruit Extract
3265ZB	MARSHMALLOW ROOT ZEA-BOTANICALS*	<i>Althaea Officinalis</i> Root Extract
3299ZB	MEADOWSWEET ZEA-BOTANICALS*	<i>Filipendula Ulmaria</i> Herb Extract

\*Indicates Fruitarianal Extract

3338DZB	MILK THISTLE SEED ZEA-BOTANICALS*	<i>Silybum Marianum Seed Extract</i>
3301ZB	MOTHERWORT HERB ZEA-BOTANICALS*	<i>Leonurus Cardiac 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>
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>
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 Comosus Fruit Extract</i>
3319ZB	PLANTAIN LEAF ZEA-BOTANICALS*	<i>Plantago Major Leaf Extract</i>
3421ZB	POMEGRANATE ZEA-BOTANICALS**	<i>Punica Granatum Juice 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 Root 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 (DOG ROSE) ZEA-BOTANICALS*	<i>Rosa Canina Fruit Extract</i>
3330ZB	ROSEMARY LEAF ZEA-BOTANICALS*	<i>Rosmarinus Officinalis 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>
3335ZB	SKULLCAP HERB ZEA-BOTANICALS*	<i>Scutellaria Lateriflora Extract</i>
3338AZB	SENNA LEAF ZEA-BOTANICALS*	<i>Cassia Senna Leaf Extract</i>
3338ZB	SHIITAKE ZEA-BOTANICALS*	<i>Lentinus Edodes 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>Spirulina 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 Anasassa (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 (BEARBERRY) 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>
3349ZB	WATERCRESS ZEA-BOTANICALS*	<i>Nasturtium Officinale Flower/Leaf 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 (MEXICAN) 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 ROOT ZEA-BOTANICALS*	<i>Yucca Schidigera Root Extract</i>

\*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.



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. This clear, viscous liquid is valued for its humectant and solvent characteristics.

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 Juice</i>
3204AGL	ANGELICA ROOT IN GLYCERIN	<i>Angelica Archangelica Root Extract</i>
3201GL	ARNICA FLOWER IN GLYCERIN	<i>Heterotheca Inuloides Flower 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 Gratissima (Avocado) Fruit Extract</i>
3208GL	BARBERRY ROOT IN GLYCERIN	<i>Berberis Vulgaris Root Extract</i>
3209GL	BAYBERRY BARK IN GLYCERIN	<i>Myrica Cerifera (Bayberry) Bark Extract</i>
3209AGL	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>
3216GL	BLUE COHOSH ROOT IN GLYCERIN	<i>Caulophyllum Thalictroides Root Extract</i>
3218GL	BLUE VERVAIN HERB IN GLYCERIN	<i>Verbena Officinalis Extract</i>
3447GL	BLUEBERRY EXTRACT IN GLYCERIN*	<i>Vaccinium Corymbosum Fruit</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 Falcatum 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 (MARIGOLD) IN GLYCERIN	<i>Calendula Officinalis Flower Extract</i>
3225GL	CAPSICUM IN GLYCERIN	<i>Capsicum Annum 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>
3227BGL	CATNIP HERB IN GLYCERIN	<i>Nepeta Cataria Extract</i>
9945AGL	CAT'S CLAW BARK IN GLYCERIN	<i>Uncaria Tomentosa Bark 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>

\*Indicates Fruitanical Extract

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 (CHINESE ANGELICA) ROOT IN GLYCERIN	<i>Angelica Polymorpha Sinensis Root Extract</i>
3252GL	ECHINACEA IN GLYCERIN	<i>Echinacea Angustifolia Root / Echinacea Purpurea Extract</i>
3254GL	ELDER BERRY IN GLYCERIN*	<i>Sambucus Nigra Fruit Extract</i>
3253GL	ELDER FLOWER IN GLYCERIN	<i>Sambucus Nigra Flower 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 (CURED) IN GLYCERIN	<i>Polygonum Multiflorum Cured Root Extract</i>
3262GL	GARLIC BULB IN GLYCERIN	<i>Allium Sativum (Garlic) Bulb Extract</i>
3269GL	GARCINIA FRUIT IN GLYCERIN*	<i>Garcinia Cambogia Fruite 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>
3317GL	GINSENG, WHITE CHINESE ROOT IN GLYCERIN	<i>Panax Ginseng 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>
3278GL	GROUND IVY IN GLYCERIN	<i>Glechoma Hederacea 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 Powder</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	HORSECHESTNUT SEED IN GLYCERIN	<i>Aesculus Hippocastanum (Horse Chestnut) Seed Extract</i>
3273GL	HORSETAIL HERB IN GLYCERIN	<i>Equisetum Arvense Extract</i>
3275GL	HYDRANGEA ROOT IN GLYCERIN	<i>Hydrangea Arborescens Root Extract</i>
3276GL	HYSSOP HERBIN 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>
3287GL	LEMON GRASS IN GLYCERIN	<i>Cymbopogon Citratus Extract</i>
3289GL	LEMON PEEL IN GLYCERIN*	<i>Citrus Limon (Lemon) Peel 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) Juice</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>Filipendula Ulmaria Herb Extract Extract</i>
3338DGL	MILK THISTLE SEED IN GLYCERIN	<i>Silybum Marianum Seed Extract</i>
3301GL	MOTHERWORT HERB IN GLYCERIN	<i>Leonurus Cardiaca 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>

\*Indicates Fruitanical Extract

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>
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>
3363GL	PEACH LEAF IN GLYCERIN*	<i>Prunus Persica (Peach) Leaf Extract</i>
3314BGL	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 Comosus Fruit Extract</i>
3319GL	PLANTAIN LEAF IN GLYCERIN	<i>Plantago Major Leaf Extract</i>
3421GL	POMEGRANATE IN GLYCERIN*	<i>Punica Granatum Juice 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 Root 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 (DOG ROSE) IN GLYCERIN	<i>Rosa Canina Fruit Extract</i>
3330GL	ROSEMARY LEAF IN GLYCERIN	<i>Rosmarinus Officinalis 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>
3335GL	SKULLCAP HERB IN GLYCERIN	<i>Scutellaria Lateriflora Extract</i>
3338AGL	SENNA LEAF IN GLYCERIN	<i>Cassia Senna Leaf Extract</i>
3338GL	SHIITAKE IN GLYCERIN	<i>Lentinus Edodes Extract</i>

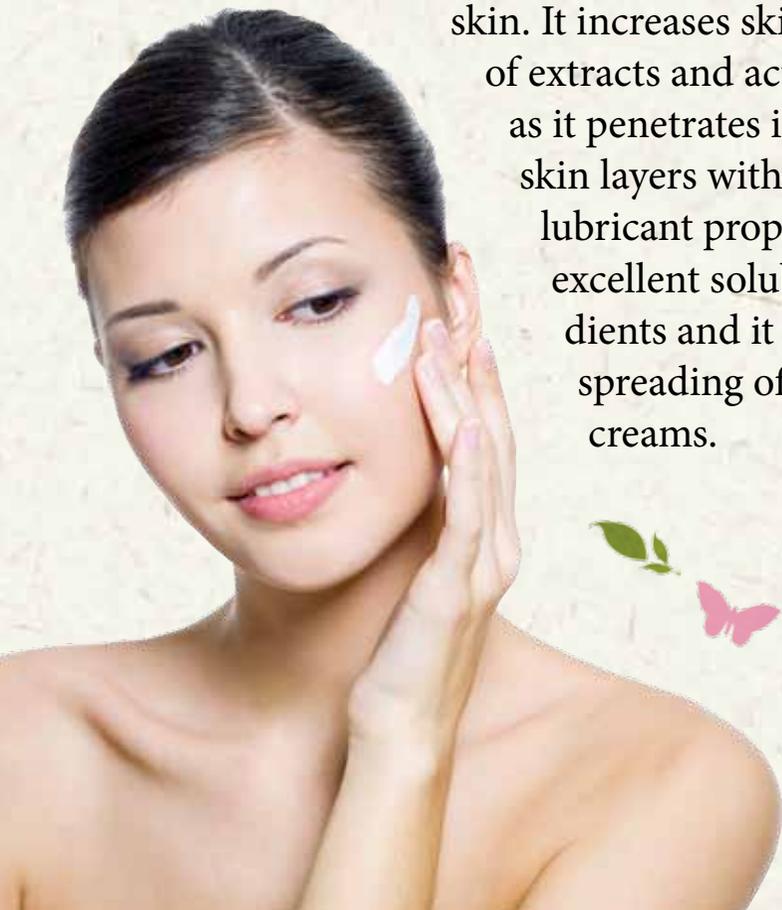
3337GL	SLIPPERY ELM BARK IN GLYCERIN	<i>Ulmus Fulva Bark Extract</i>
3342GL	SPINACH LEAF IN GLYCERIN	<i>Spinacia Oleracea (Spinach) Leaf Extract</i>
3837GL	SPIRULINA IN GLYCERIN	<i>Spirulina Platensis Extract</i>
3909GL	ST. JOHN'S WORT HERB IN GLYCERIN	<i>Hypericum Perforatum Flower/Leaf/Stem Extract</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 (BEARBERRY) 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>
3349GL	WATERCRESS IN GLYCERIN	<i>Nasturtium Officinale Flower/Leaf 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 (MEXICAN) 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 ROOT IN GLYCERIN	<i>Yucca Schidigera Root Extract</i>

\*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 an excellent solubilizer of ingredients and it increases the spreading of properties of creams.



CODE	PRODUCT NAME	INCI NAME (Propylene Glycol and Water)
3437NPG	ACAI IN PG*	<i>Euterpe Oleracea</i> Fruit Extract
3230NPG	ALFALFA LEAF IN PG	<i>Medicago Sativa</i> (Alfalfa) Leaf Extract
3160NPG	ALOE VERA GEL IN PG	<i>Aloe Barbadosensis</i> Leaf Juice
3204ANPG	ANGELICA ROOT IN PG	<i>Angelica Archangelica</i> Root Extract
3201NPG	ARNICA FLOWER IN PG	<i>Heterotheca Inuloides</i> Flower 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
3209NPG	BAYBERRY BARK IN PG	<i>Myrica Cerifera</i> (Bayberry) Bark Extract
3209NPG	BEE POLLEN GRANULES IN PG	Pollen Extract
3210CPG	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
3216NPG	BLUE COHOSH ROOT IN PG	<i>Caulophyllum Thalicroides</i> Root Extract
3218NPG	BLUE VERVAIN HERB IN PG	<i>Verbena Officinalis</i> Extract
3447NPG	BLUEBERRY EXTRACT IN PG*	<i>Vaccinium Corymbosum</i> Fruit
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 Falcatum</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 (MARIGOLD) 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
3227BNPG	CATNIP HERB IN PG	<i>Nepeta Cataria</i> Extract
9945ANPG	CAT'S CLAW BARK IN PG	<i>Uncaria Tomentosa</i> Bark 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

\*Indicates Fruitanical 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
3236NPG	CLEAVERS HERB IN PG	<i>Galium Aparine</i> Extract
3314NPG	CODONOPSIS ROOT IN PG	<i>Codonopsis Lanceolata</i> Root Extract
3172NPG	COFFEE SEED IN PG*	<i>Coffea Arabica</i> (Coffee) Seed Extract
3236NPG	COLTSFOOT LEAF IN PG	<i>Tussilago Farfara</i> (Coltsfoot) Leaf Extract
3237NPG	COMFREY LEAF IN PG	<i>Symphytum Officinale</i> Leaf Extract
3238NPG	COMFREY ROOT IN PG	<i>Symphytum Officinale</i> Root Extract
3241NPG	CORN FLOWER IN PG	<i>Centaurea Cyanus</i> Flower Extract
3242NPG	CORNSILK IN PG	<i>Zea Mays</i> (Corn) Silk Extract
3243NPG	COUCHGRASS RHIZOME IN PG	<i>Agropyron Repens</i> Root Extract
3244NPG	CRANBERRY IN PG	<i>Vaccinium Macrocarpon</i> (Cranberry) Fruit Extract
3245NPG	CUCUMBER IN PG*	<i>Cucumis Sativus</i> (Cucumber) Fruit Extract
3246NPG	DAMIANA LEAF IN PG	<i>Turnera Diffusa</i> Leaf Extract
3248NPG	DANDELION ROOT IN PG	<i>Taraxacum Officinale</i> (Dandelion) Root Extract
3249NPG	DEVIL'S CLAW ROOT IN PG	<i>Harpagophytum Procumbens</i> Root Extract
3251NPG	DONG QUAI (CHINESE ANGELICA) ROOT IN PG	<i>Angelica Polymorpha Sinensis</i> Root Extract
3252NPG	ECHINACEA IN PG	<i>Echinacea Angustifolia</i> Root / <i>Echinacea Purpurea</i> Extract
3254NPG	ELDER BERRY IN PG*	<i>Sambucus Nigra</i> Fruit Extract
3253NPG	ELDER FLOWER IN PG	<i>Sambucus Nigra</i> Flower Extract
3255NPG	ELECAMPANE ROOT IN PG	<i>Inula Helenium</i> Extract
3266NPG	ELEUTHERO ROOT IN PG	<i>Acanthopanax Senticosus</i> (Eleuthero) Root Extract
3256NPG	EVENING PRIMROSE FLOWER IN PG	<i>Oenothera Biennis</i> (Evening Primrose) Flower Extract
3257NPG	EYEBRIGHT HERB IN PG	<i>Euphrasia Officinalis</i> Extract
3259NPG	FENNEL SEED IN PG	<i>Foeniculum Vulgare</i> (Fennel) Seed Extract
3260NPG	FENUGREEK SEED IN PG	<i>Trigonella Foenum-Graecum</i> Seed Extract
3260NPG	FEVERFEW HERB IN PG	<i>Chrysanthemum Parthenium</i> (Feverfew) Extract
3261NPG	FO TI ROOT (CURED) IN PG	<i>Polygonum Multiflorum</i> Cured Root Extract
3262NPG	GARLIC BULB IN PG	<i>Allium Sativum</i> (Garlic) Bulb Extract
3269NPG	GARCINIA FRUIT IN PG*	<i>Garcinia Cambogia</i> Fruite Extract
3263NPG	GENTIAN ROOT IN PG	<i>Gentiana Lutea</i> Root Extract
3264NPG	GINGER ROOT IN PG	<i>Zingiber Officinale</i> (Ginger) Root Extract
3059NPG	GINKGO LEAF IN PG	<i>Ginkgo Biloba</i> Leaf Extract
3265CNPG	GINSENG, AMERICAN ROOT IN PG	<i>Panax Quinquefolium</i> Root Extract
3317NPG	GINSENG, WHITE CHINESE ROOT IN PG	<i>Panax Ginseng</i> Root Extract

3350NPG	GOJI IN PG*	<i>Lycium Barbarum</i> Fruit Extract
3268NPG	GOLDENSEAL ROOT IN PG	<i>Hydrastis Canadensis</i> (Goldenseal) Root Extract
3424NPG	GOTU KOLA IN PG	<i>Centella Asiatica</i> Extract
3413NPG	GRAPE SEED IN PG*	<i>Vitis Vinifera</i> (Grape) Seed Extract
3199NPG	GRAPEFRUIT SEED IN PG*	<i>Citrus Paradisi</i> (Grapefruit) Seed Extract
3345NPG	GREEN TEA LEAF IN PG	<i>Camellia Sinensis</i> Leaf Extract
3278NPG	GROUND IVY IN PG	<i>Glechoma Hederacea</i> Extract
3346NPG	GUARANA SEED IN PG*	<i>Paullinia Cupana</i> Seed Extract
3320NPG	GYMNEMA LEAF IN PG	<i>Gymnema Sylvestre</i> Leaf Extract
3270NPG	HAWTHORN BERRY IN PG	<i>Crataegus Monogyna</i> Fruit Extract
3629NPG	HIBISCUS FLOWER IN PG	<i>Hibiscus Sabdariffa</i> Flower Extract
3362NPG	HOLY BASIL LEAF IN PG	<i>Ocimum Sanctum</i> Leaf Powder
3282NPG	HONEY IN PG	Honey
3271NPG	HOPS STROBILE IN PG	<i>Humulus Lupulus</i> (Hops) Cone Extract
3272NPG	HOREHOUND HERB IN PG	<i>Marrubium Vulgare</i> Extract
3274NPG	HORSE CHESTNUT SEED IN PG	<i>Aesculus Hippocastanum</i> (Horse Chestnut) Seed Extract
3273NPG	HORSETAIL HERB IN PG	<i>Equisetum Arvense</i> Extract
3275NPG	HYDRANGEA ROOT IN PG	<i>Hydrangea Arborescens</i> Root Extract
3276NPG	HYSSOP HERB IN PG	<i>Hyssopus Officinalis</i> Flower Extract
3277NPG	IRISH MOSS IN PG	<i>Chondrus Crispus</i> Extract
3281NPG	JUNIPER BERRY IN PG	<i>Juniperus Communis</i> Fruit Extract
3281NPG	KAVA KAVA ROOT IN PG	<i>Piper Methysticum</i> Root Extract
3282NPG	KELP IN PG	<i>Ascophyllum Nodosum</i> Extract
3283NPG	KOLA NUT IN PG	<i>Cola Nitida</i> Seed Extract
3285NPG	LAVENDER FLOWER IN PG	<i>Lavandula Angustifolia</i> (Lavender) Flower Extract
3288NPG	LEMON BALM HERB IN PG	<i>Melissa Officinalis</i> Extract
3287NPG	LEMON GRASS IN PG	<i>Cymbopogon Citratus</i> Extract
3289NPG	LEMON PEEL IN PG*	<i>Citrus Limon</i> (Lemon) Peel Extract
3291NPG	LICORICE ROOT IN PG	<i>Glycyrrhiza Glabra</i> (Licorice) Root Extract
3293NPG	LINDEN FLOWER IN PG	<i>Tilia Europaea</i> Flower Extract
3294NPG	LOBELIA HERB IN PG	<i>Lobelia Inflata</i> Extract
3321NPG	LOMATIUM ROOT IN PG	<i>Lomatium Dissectum</i> Root Extract
3408NPG	MANGO IN PG*	<i>Mangifera Indica</i> Fruit (Mango) Juice
3445NPG	MANGOSTEEN IN PG*	<i>Garcinia Mangostana</i> Fruit Extract
3265NPG	MARSHMALLOW ROOT IN PG	<i>Althaea Officinalis</i> Root Extract
3299NPG	MEADOWSWEET HERB IN PG	<i>Filipendula Ulmaria</i> Herb Extract Extract

\*Indicates Fruitanical Extract

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>
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>
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>
3314APG	PAU D'ARCO INNER BARK IN PG	<i>Tabebuia Impetiginosa Bark 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 Comosus Fruit Extract</i>
3319NPG	PLANTAIN LEAF IN PG	<i>Plantago Major Leaf Extract</i>
3421NPG	POMEGRANATE IN PG*	<i>Punica Granatum Juice 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 Root 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 (DOG ROSE) IN PG	<i>Rosa Canina Fruit Extract</i>
3330NPG	ROSEMARY LEAF IN PG	<i>Rosmarinus Officinalis 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>
3335NPG	SKULLCAP HERB IN PG	<i>Scutellaria Lateriflora Extract</i>
3338APG	SENNA LEAF IN PG	<i>Cassia Senna Leaf Extract</i>
3338NPG	SHIITAKE IN PG	<i>Lentinus Edodes 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>Spirulina 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 (BEARBERRY) 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>
3349NPG	WATERCRESS IN PG	<i>Nasturtium Officinale Flower/Leaf 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 (MEXICAN) 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 ROOT IN PG	<i>Yucca Schidigera Root Extract</i>

\*Indicates Fruitanical Extract



# 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 Barbadensis Leaf Juice</i>
3204ANBG	ANGELICA ROOT IN BG	<i>Angelica Archangelica Root Extract</i>
3201NBG	ARNICA FLOWER IN BG	<i>Heterotheca Inuloides Flower 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>
3209NBG	BAYBERRY BARK IN BG	<i>Myrica Cerifera (Bayberry) Bark Extract</i>
3209NBG	BEE POLLEN GRANULES IN BG	<i>Pollen Extract</i>
3210NBG	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>
3216NBG	BLUE COHOSH ROOT IN BG	<i>Caulophyllum Thalictroides Root Extract</i>
3218NBG	BLUE VERVAIN HERB IN BG	<i>Verbena Officinalis Extract</i>
3447NBG	BLUEBERRY EXTRACT IN BG*	<i>Vaccinium Corymbosum Fruit</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 Falcatum 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 (MARIGOLD) 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>
3227NBG	CATNIP HERB IN BG	<i>Nepeta Cataria Extract</i>
9945ANBG	CAT'S CLAW BARK IN BG	<i>Uncaria Tomentosa Bark 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>

\*Indicates Fruitanical Extract

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>
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>
3244CBG	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 (CHINESE ANGELICA) ROOT IN BG	<i>Angelica Polymorpha Sinensis Root Extract</i>
3252NBG	ECHINACEA IN BG	<i>Echinacea Angustifolia Root / Echinacea Purpurea Extract</i>
3254NBG	ELDER BERRY IN BG*	<i>Sambucus Nigra Fruit Extract</i>
3253NBG	ELDER FLOWER IN BG	<i>Sambucus Nigra Flower 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 (CURED) IN BG	<i>Polygonum Multiflorum Cured Root Extract</i>
3262NBG	GARLIC BULB IN BG	<i>Allium Sativum (Garlic) Bulb Extract</i>
3269NBG	GARCINIA FRUIT IN BG*	<i>Garcinia Cambogia Fruite 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>
3317NBG	GINSENG, WHITE CHINESE ROOT IN BG	<i>Panax Ginseng Root 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>
3278NBG	GROUND IVY IN BG	<i>Glechoma Hederacea 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 Powder</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>
3287NBG	LEMON GRASS IN BG	<i>Cymbopogon Citratus Extract</i>
3289NBG	LEMON PEEL IN BG*	<i>Citrus Limon (Lemon) Peel 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) Juice</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>Filipendula Ulmaria Herb Extract Extract</i>
3338DNBG	MILK THISTLE SEED IN BG	<i>Silybum Marianum Seed Extract</i>
3301NBG	MOTHERWORT HERB IN BG	<i>Leonurus Cardiac Extract</i>
3302NBG	MUIRA PUAMA ROOT IN BG	<i>Ptychopetalum Olacoides Root Extract</i>

\*Indicates Fruitanical Extract

3303NBG	MULLEIN LEAF IN BG	<i>Verbascum Thapsus Leaf Extract</i>
3304NBG	MYRRH GUM RESIN IN BG	<i>Commiphora Myrrha Resin</i>
3367NBG	NETTLE LEAF IN BG	<i>Urtica Dioica (Nettle) Leaf Extract</i>
3305NBG	NETTLE ROOT IN BG	<i>Urtica Dioica (Nettle) Root Extract</i>
3270HNBG	NEUTRAL HENNA IN BG	<i>Lawsonia Inermis (Henna) Leaf Extract</i>
3504NBG	NONI IN BG*	<i>Morinda Citrifolia Fruit Extract</i>
3307NBG	OAT SEED IN BG	<i>Avena Sativa (Oat) Seed Extract</i>
3403NBG	OLIVE LEAF IN BG	<i>Olea Europaea (Olive) Leaf Extract</i>
3309NBG	ORANGE PEEL IN BG*	<i>Citrus Aurantium Dulcis (Orange) Peel Extract</i>
3308ANBG	OREGON GRAPE ROOT IN BG	<i>Mahonia Aquifolium Root Extract</i>
3332NBG	OSHA ROOT IN BG	<i>Ligusticum Porteri Root Extract</i>
3832NBG	PAPAYA LEAF IN BG	<i>Carica Papaya (Papaya) Leaf Extract</i>
3311NBG	PARSLEY LEAF IN BG	<i>Petroselinum Crispum (Parsley) Leaf Extract</i>
3470NBG	PASSION FRUIT IN BG*	<i>Passiflora Edulis Fruit Extract</i>
3313NBG	PASSIONFLOWER HERB IN BG	<i>Passiflora Incarnata Flower Extract</i>
3314ANBG	PAU D'ARCO INNER BARK IN BG	<i>Tabebuia Impetiginosa Bark Extract</i>
3363NBG	PEACH LEAF IN BG*	<i>Prunus Persica (Peach) Leaf Extract</i>
3314BNBG	PENNYROYAL HERB IN BG	<i>Mentha Pulegium Extract</i>
3315NBG	PEPPERMINT LEAF IN BG	<i>Mentha Piperita (Peppermint) Leaf Extract</i>
3316NBG	PERIWINKLE HERB IN BG	<i>Vinca Minor Extract</i>
3432ZNBG	PINEAPPLE FRUIT IN BG*	<i>Ananas Comosus Fruit Extract</i>
3319NBG	PLANTAIN LEAF IN BG	<i>Plantago Major Leaf Extract</i>
3421NBG	POMEGRANATE IN BG*	<i>Punica Granatum Juice Extract</i>
3322NBG	PRICKLY ASH BARK IN BG	<i>Zanthoxylum Americanum Extract</i>
3341NBG	PROPOLIS IN BG	<i>Propolis Extract</i>
3324NBG	PUMPKIN SEED IN BG	<i>Cucurbita Pepo (Pumpkin) Seed Extract</i>
3365NBG	QUILLAJA BARK IN BG	<i>Quillaja saponaria Root Extract</i>
3326NBG	RED CLOVER TOPS IN BG	<i>Trifolium Pratense (Clover) Flower Extract</i>
3327NBG	RED RASPBERRY LEAF IN BG*	<i>Rubus Idaeus (Raspberry) Leaf Extract</i>
3336NBG	REISHI IN BG	<i>Ganoderma Lucidum (Mushroom) Extract</i>
3453NBG	RHODIOLA IN BG	<i>Rhodiola Rosea Root Extract</i>
3328NBG	RHUBARB ROOT IN BG	<i>Rheum Palmatum Root Extract</i>
3329NBG	ROSE HIPS (DOG ROSE) IN BG	<i>Rosa Canina Fruit Extract</i>
3330NBG	ROSEMARY LEAF IN BG	<i>Rosmarinus Officinalis Leaf Extract</i>
3331NBG	SAGE LEAF IN BG	<i>Salvia Officinalis (Sage) Leaf Extract</i>
3333NBG	SARSAPARILLA ROOT IN BG	<i>Smilax Aristolochiaefolia Root Extract</i>
3334NBG	SAW PALMETTO BERRY IN BG	<i>Serenoa Serrulata Fruit Extract</i>
3336ANBG	SCHIZANDRA BERRY IN BG	<i>Schizandra Chinensis Berry Extract</i>
3335NBG	SKULLCAP HERB IN BG	<i>Scutellaria Lateriflora Extract</i>

3338ANBG	SENNA LEAF IN BG	<i>Cassia Senna Leaf Extract</i>
3338NBG	SHIITAKE IN BG	<i>Lentinus Edodes Extract</i>
3337NBG	SLIPPERY ELM BARK IN BG	<i>Ulmus Fulva Bark Extract</i>
3342NBG	SPINACH LEAF IN BG	<i>Spinacia Oleracea (Spinach) Leaf Extract</i>
3837NBG	SPIRULINA IN BG	<i>Spirulina Platensis Extract</i>
3909NBG	ST. JOHN'S WORT HERB IN BG	<i>Hypericum Perforatum Flower/Leaf/Stem Extract</i>
3495NBG	STEVIA IN BG	<i>Stevia Rebaudiana Extract</i>
3407NBG	STRAWBERRY IN BG*	<i>Fragaria Ananassa (Strawberry) Fruit Extract</i>
3339NBG	SUMA ROOT IN BG	<i>Pfafia Paniculata Root Extract</i>
3423NBG	TAMARIND IN BG	<i>Tamarindus Indica Fruit Extract</i>
3344NBG	THYME HERB IN BG	<i>Thymus Vulgaris (Thyme) Extract</i>
3418NBG	UVA URSI LEAF (BEARBERRY) IN BG	<i>Arctostaphylos Uva Ursi Leaf Extract</i>
3348NBG	VALERIAN ROOT IN BG	<i>Valeriana Officinalis Root Extract</i>
3340NBG	VITEX BERRY IN BG	<i>Vitex Agnus Castus Extract</i>
3349NBG	WATERCRESS IN BG	<i>Nasturtium Officinale Flower/Leaf Extract</i>
3306NBG	WHITE OAK BARK IN BG	<i>Quercus Alba Bark Extract</i>
3422NBG	WHITE TEA LEAF IN BG	<i>Camellia Sinensis Leaf Extract</i>
3325NBG	WHITE WILLOW BARK IN BG	<i>Salix Alba (Willow) Bark Extract</i>
3351NBG	WILD CHERRY BARK IN BG	<i>Prunus Serotina (Wild Cherry) Bark Extract</i>
3355NBG	WILD YAM ROOT (MEXICAN) IN BG	<i>Dioscorea Villosa (Wild Yam) Root Extract</i>
3356NBG	WITCH HAZEL LEAF IN BG	<i>Hamamelis Virginiana (Witch Hazel) Leaf Extract</i>
3358NBG	YARROW FLOWERS IN BG	<i>Achillea Millefolium Flower Extract</i>
3359NBG	YELLOWDOCK ROOT IN BG	<i>Rumex Crispus Root Extract</i>
3956NBG	YERBA MATE LEAF IN BG	<i>Ilex Paraguariensis Leaf Extract</i>
3359ANBG	YOHIMBE IN BG	<i>Corynanthe Yohimbe Bark Extract</i>
3360NBG	YUCCA ROOT IN BG	<i>Yucca Schidigera Root Extract</i>

\*Indicates Fruitanical Extract



# CUSTOM FORMULATIONS AVAILABLE UPON REQUEST

**Custom Extract Blends Available in:  
Zemea<sup>®</sup>, Glycerin, Butylene Glycol,  
or Propylene Glycol**



<b>3023X</b>	Face Detox	<i>Ascophyllum Nodosum</i>	Kelp Extract
		<i>Salix Alba</i>	White Willow Bark
		<i>Hamamelis Virginiana</i>	Witch Hazel Leaf
		<i>Calendula Officinalis</i>	Marigold Flower

<b>3025X</b>	Age Defy	<i>Vitis Vinifera</i>	Grape Seed
		<i>Coffea Arabica</i>	Coffee Seed
		<i>Rubus Idaeus</i>	Red Raspberry Leaf

<b>3026X</b>	Slimming	<i>Camellia Sinensis</i>	Green Tea Leaf
		<i>Coffea Arabica</i>	Coffee Seed
		<i>Aesculus Hippocastanum</i>	Horsechestnut Seed
		<i>Paulinia Cupana</i>	Guarana Seed
		<i>Coleus Forskohlii</i>	Coleus Root

<b>3027X</b>	Tea Blend	<i>Camellia Sinensis</i>	Green Tea Leaf
		<i>Camellia Sinensis</i>	White Tea Leaf
		<i>Aspalathus Linearis</i>	Rooibos Tea Leaf

<b>3028X</b>	Men's Complex	<i>Cymbopogon Citratus</i>	Lemongrass Extract
		<i>Trigonella Foenum-Graecum</i>	Fenugreek Seed
		<i>Harpagophytum Procumbens</i>	Devil's Claw Root
		<i>Punica Granatum</i>	Pomegranate Fruit
		<i>Aspalathus Linearis</i>	Rooibos Tea Leaf

<b>3000X</b>	Southwest Blend	<i>Cereus Grandiflorus</i>	Cactus Flower
		<i>Salvia Officinalis</i>	Sage Leaf
		<i>Larrea divaricata</i>	Chaparral Herb
		<i>Yucca Schidigera</i>	Yucca Root

<b>3017X</b>	Soothe & Comfort Blend	<i>Echinacea Angustifolia</i>	Echinacea Extract
		<i>Crataegus Monogyna</i>	Hawthorne Berry
		<i>Calendula Officinalis</i>	Calendula Flower
		<i>Chamomilla Recutita</i>	Chamomile Flower
		<i>Aloe Barbadensis</i>	Aloe Vera Extract
		<i>Avena Sativa</i>	Oat Seed

<b>3018X</b>	Moisturizing Blend	<i>Aloe Barbadensis</i>	Aloe Vera Extract
		<i>Petroselinum Crispum</i>	Parsley Leaf
		<i>Ulmus Fulva</i>	Slippery Elm Bark
		<i>Fucus Vesiculosus</i>	Bladderwrack Extract
		<i>Avena Sativa</i>	Oat Seed
		<i>Achillea Millefolium</i>	Yarrow Flower

<b>3035X</b>	Algae Blend	<i>Arthrospira Platensis</i>	Spirulina Extract
		<i>Ascophyllum Nodosum</i>	Kelp Extract
		<i>Fucus Vesiculosus</i>	Bladderwrack Extract

# "WHERE SCIENCE BRINGS

# OUT THE BEST OF NATURE™"

## SKIN

### ACNE

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

### AFTER SHAVE

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

### ANTI-BACTERIAL

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

### ANTI-INFLAMMATORY

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

### ANTI-OXIDANTS

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

### ANTISEPTIC

Echinacea, Wild Indigo, 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,  
Sandalwood, Comfrey, Yarrow, Nettles,  
Horsechestnut, Corn Flower, Bilberry, Hawthorn  
Berries

### CELLULITE

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

### CLEANSERS

Papaya, Burdock, Soap Bark, Lemon Peel,  
Lavender, White Willow, Avocado, Irish moss,  
Rose Hips

### DEODORANTS

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

### DRY SKIN

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, Quince,  
Althea Root, Slippery Elm Bark, Kelp, Blad-  
derwrack, Licorice, Oats, Orange Peel, Citrus  
Bio-flavonoids, Peach, Evening  
Primrose, Yarrow, Parsley,  
Cleavers, Arnica, Ginseng

### SKIN, OILY

Caraway, Cucumber, Dandelion,  
Dulse, Fennel, Lavender, Lemon,  
Grapefruit, Lemon Grass, Rose Hips,  
Witch Hazel, Wild Alum

### 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

### 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

Quassia, Artichoke, Chamomile,  
Lemon Balm, Nettles,  
Witch Hazel, Orange Peel, Rosemary,  
White Willow, Soap Root, Chaparral,  
Thyme, Artichoke, Catnip

### BLONDE HAIR

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

### BRUNETTE

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

### RED HAIR

Chamomile, Hibiscus,  
Marigold, Pomegranate, Acai

### HAIR, DARK

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

### HAIR, Dry

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

### HAIR, TO ADD SHEEN

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

### HAIR, SPLIT ENDS

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

### HAIR STIMULANTS

Camphor, Capsicum, Birch, White  
Willow Bark, Arnica, Horseradish,  
Alfalfa, Anise, Burdock Root,  
Butchers Broom, Saw Palmetto,  
Avocado, Catnip Herb,  
Ginkgo Biloba, Ginseng Root

## NAILS

### NAILS

Horsetail Grass, Comfrey, Calendula  
(To Strengthen) Oil, Aloe Vera,  
Chamomile Yarrow, Yucca

\*NOTE: The following suggested uses of botanicals are presented solely for their educational value. We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for the results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with our products. Users are advised to make 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. The botanicals presented here are subject to availability. Please contact Bio-Botanica® for the most up to date product information.