Jarchem’s Actique™ product line offers China Approved Actives based on traditional Chinese medicine (TCM) with varying benefits and are great in all types of aqueous and/or anhydrous applications.

**Function Range Includes:**

- Skin lightening
- Anti-pigmentation/evening of skin tone
- Anti-inflammation
- Improvement of skin barrier function
- Hydration
Skin Lightening/Brightening

**Actique™ LIC 90**
*Glycyrrhiza Glabra (Licorice) Root Extract*

Naturally derived, off-white powder extracted from the root of the *Glycyrrhiza Glabra Linne*. With its extremely low color value, **Actique™ LIC 90** can be used to replace Glabridin products with high Gardner values. Our unique advanced extraction process successfully yields a high content of pure Glabridin (>90% HPLC). This highly pure extract provides triple benefit effects, including skin lightening (stronger tyrosinase inhibition than Arbutin, Kojic Acid, Vitamin C, and Hydroquinone), reduction of inflammation from UV-B radiation and anti-oxidation activity. *In-vivo* chromameter readings demonstrated increases in skin lightening and facial redness reduction. Full studies available upon request.

**Actique™ LIC**
*Glycyrrhiza Glabra (Licorice) Root Extract*

**Actique™ LIC** is a naturally derived yellow-brown powder extracted from the root of the *Glycyrrhiza Glabra Linne*. It contains 40% minimum of pure Glabridin.

**Actique™ Aqua LIC**
*Glycyrrhiza Glabra (Licorice) Root Extract (and) Hydroxypropyl Cyclodextrin (and) Pentylene Glycol (and) Aqua*

A 2.0% white to pale yellow Glabridin solution which is soluble in water for your formulating needs.

**Actique™ MAP**
*Magnesium Ascorbyl Phosphate*

A high purity, water soluble skin-lightening active with high anti-oxidant activity.

Multi-Function Skin Lightening

**Actique™ Light**
*Glycyrrhiza Glabra (Licorice) Root Extract (and) Hydrolyzed Conchiolin Protein (and) Hydroxypropyl Cyclodextrin (and) Pentylene Glycol*

A highly efficacious dark spot removal and skin lightening system containing a mixture of Pearl Oligopeptides (3%) and Glabridin (2%). *In-vivo* chromameter readings proved this product to be an effective skin lightening agent.
Anti-Hyperpigmentation/Evening of Skin Tone

**ACTIQUE™ PEARL**
Hydrolyzed Conchiolin Protein

A unique dark spot correcting oligopeptide naturally derived from conchiolin ("pearl") protein. **Actique™ Pearl** is a water soluble active that functions as a highly effective endothelin antagonist. *In-vivo* testing showed a reduced appearance of hyperpigmentation and significant skin lightening. Full studies available upon request.

Anti-Inflammation

**ACTIQUE™ SHIKON**
Caprylic/Capric Triglyceride (and) Lithospermum Erythrorhizon Root Extract

A potent anti-inflammatory derived from the Chinese medicinal herb, *Arnebia Euchroma (Royle) Johnst.* Has the ability to decrease inflammation, control oil and acne, and soothe the skin. This product also has the rare ability to add a natural pink or red color (photo and heat stable) to all types of formulations. *Notice:* will darken if it comes in contact with ferrous (iron) like metals, therefore, contact with these should be avoided.

Improvement of Skin Barrier Function/Hydration

**ACTIQUE™ CERAMIDE**
Ceramide NG

Actique™ Ceramide mimics the ceramide-2 present in skin to preserve epidermal water content, strengthen the cohesion force of epidermal cells and repair and restore the skin barrier function.

**ACTIQUE™ AQUA CERAMIDE**
Ceramide NG (and) Steareth-30 (and) Cholesterol (and) Stearic Acid (and) Aqua

Actique™ Aqua Ceramide is based on the structure and benefits of ceramide-2, present in our skin. This product helps to repair the skin barrier function, improve skin hydration and reduce TEWL. It is also effective for improving hair hydrophobicity and smoothness. It can be added to cold-process formulations, which perfectly solves the troubles caused by the high melting point of traditional ceramides, making formulating easy!

**ACTIQUE™ NAG**
Acetyl Glucosamine

Actique NAG is a revolutionary ingredient that can promote the synthesis of Hyaluronic Acid (HA) and Glycosaminoglycans (GAGs) to protect the skin internally and externally. This product serves as a next generation moisturizer that complements topical HA to effectively moisturize the epidermis and dermis, strengthen the DEJ and tighten the skin. Can also be used as a skin lightening enhancer (tyrosinase inhibitor) when formulated with Niacinamide. Suggested use level of 0.5 – 3.0%.
Hydration:

**Actique™ Sodium Hyaluronates**

Jarchem’s Actique™ Hyal Sodium Hyaluronates originate from all-natural fermentation processes, using non-animal and non-GMO sources. Sodium Hyaluronate (aka Hyaluronic Acid, Hyaluronan, or HA), in general, is known to be able to stabilize up to 1,000 times its own weight in water. Not only does Sodium Hyaluronate retain water, but it also keeps collagen from cracking and drying out. As a result, it is recognized as a Natural Moisturizing Factor (NMF) and anti-aging ingredient.

**Actique™ Hyal Max**
A high viscosity yielding and high water-binding Sodium Hyaluronate with a MW from 1.8—2.5 Million Da.

**Actique™ Hyal 1M**
A medium viscosity yielding and medium water-binding Sodium Hyaluronate with a MW from 850,000—1.6 Million Da.

**Actique™ Hyal Mini**
An oligosaccharide of Hyaluronic Acid with excellent skin absorption, hydration, and anti-wrinkle effects. What differentiates this product from common Sodium Hyaluronate is the low molecular weight below 10,000 Daltons. In addition, the size of ~20 nm is below the average molecular spacing on the skin of 40-50 nm. Therefore, once Actique™ Hyal Mini is applied to the skin, it penetrates into the stratum corneum. The small molecular features keep water inside that cannot wash off easily, and sustains the hydration effect for 3 days or longer after application. It can also be used in conjunction with common Sodium Hyaluronate to provide “double hydration” from the outside in.

**Actique™ Hyal 1%**
*(INCI: Sodium Hyaluronate (and) Water)* A premade 1% solution of Sodium Hyaluronate and water. Preserved with Phenoxyethanol and Ethylhexylglycerin.