Curcylic[™] 40

Pre-solubilized Salicylic Acid Technology



Curcylic[™] 40

INCI: Cocamidopropyl
Dimethylamine (and) Salicylic

Acid

CAS #: 68140-01-2 (and) 69-72-7 EC #: 268-771-8 (and) 200-712-3

Water Soluble - Dilutes Clear

No Precipitation of Salicylic Acid

No Crystallization

Meets USP salicylic acid gel monograph

Ease of Use and Handling

Recommended applications





Facial Cleansers

Skin Care

PATENT

US 8,828,979 B2 Salicylic Acid Gel

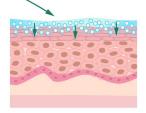
Water soluble and patented form of Salicylic Acid for safe and effective skin care and OTC formulations.

Curcylic^{**} 40 is a keratolytic agent that works by gently and safely exfoliating dead skin cells which speeds up the natural process of skin turnover. When the rate of exfoliation increases, the skin is clearer, smoother, brighter and dead cells are less likely to build up in the follicle to form blackheads and pimples. Salicylic Acid has been shown by scientific studies to improve skin thickness, barrier functions, and even collagen production. In addition, it is well documented that Salicylic Acid has anti-inflammatory properties, making it an ideal solution to relieving inflammation caused by rosacea, acne, age spots and aging. The antimicrobial properties help to clear skin of unwanted breakouts. Salicylic Acid is also a proven technology for scalp health.

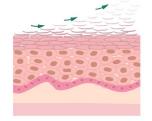
Curcylic[™] 40 is FDA approved for inclusion in OTC acne and dandruff products. It meets the USP Salicylic Acid gel monograph and is a 40% complexed Salicylic Acid in its pure form. Curcylic[™] 40 is safe to use, requires no irritating alcohols to solubilize and is tolerated very well even when used twice a day. It is a safer alternative to glycolic acid and even traditional forms of Salicylic Acid.







Salicylic Acid penetrates & softens keratin, a protein that's part of a critical process called cornification. It also breaks out desmosomes, which links cells together in the epidermis



By softening Keratin, the skin is more easily turned over, and new skin cells are allowed to come to the surface

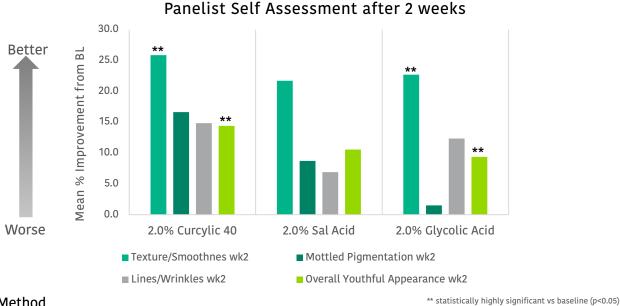






Panelist Assessment

Curcylic™ 40 provides better skin improvement benefits than traditional Salicylic acid and Glycolic acid.



Method

15 volunteers, 35-59 years old, 3 groups of 5 panelists

Test Product

- Curcylic™ 40 2% Salicylic Acid
- Traditional Salicylic Acid 2%
- Glycolic acid 2%

Application Applied twice daily for 2 weeks Panelist self-assessment Visual assessment by trained expert

Criteria assessed:

- Texture/Smoothness
- Mottled/Uneven pigmentation
- Lines/Wrinkles
- Overall youthful appearance

Skin Dryness & Erythema

Curcylic™ 40 provides better skin improvement benefits than traditional Salicylic acid and Glycolic acid.

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Test Product

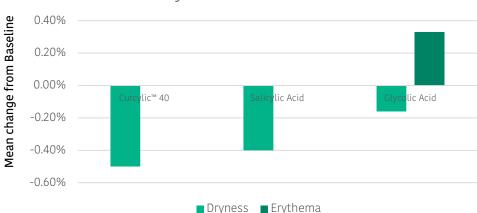
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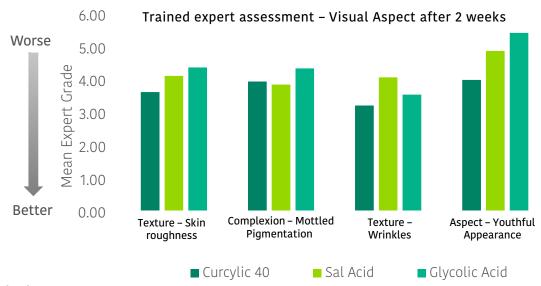
- Texture/Smoothness
- Mottled/Uneven pigmentation
- Lines/Wrinkles
- Overall youthful appearance

Expert Assessment - Skin Dryness & Erythema after 2 weeks



Visual Aspect

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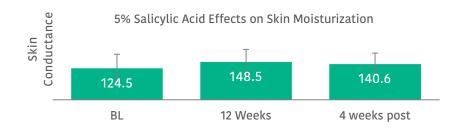
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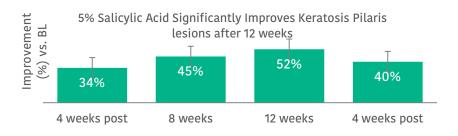
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- · Mottled/Uneven pigmentation
- · Lines/Wrinkles
- · Overall youthful appearance

Salicylic Acid for Keratosis Pilaris treatment

Salicylic Acid was found to be effective in improving Keratosis Pilaris



A common skin condition that causes rough patches and small, acne-like bumps, usually on the arms, thighs, cheeks and buttocks.



Curcylic[™] 40

Pre-solubilized

Salicylic Acid

Technology

Appearance	Amber Viscous Liquid
Assay	36-44% Salicylic Acid USP
Recommended Use Level	0.5-40% of Salicylic Acid*
Regulatory Details	Listed on PCPC, IECSC, China IECIC 2015 (ISO16128: 40.2%)

^{*}Restrictions on the amount of salicylic acid that can be used for use in cosmetics may vary by region, intended use and application.

Formulation guidelines

Incorporation of Curcylic[™] 40 in formulations:

- Oil-in-water emulsions: After the two phases have been combined and the emulsion has formed, cool the batch to 40°C 45°C. Slowly mix in the Curcylic™ 40 with propeller agitation and continue cooling and mixing.
- Gel based formulations: After polymer dispersion at 75°C 85°C, add desired ingredients, then add neutralizer if required: KOH or NaOH. When batch reaches 45°C, add Curcylic™ 40 with mixing and cool to 25°C.
- Note: Curcylic™ 40 is a medium yellow liquid, therefore gel formulations will have a pale yellow tint.
- Cold process formulations: Is easily used in cold processing of formulations where no heat is needed.

Compatibility

- · Most esters, waxes and non-ionic emulsifiers
- Glycols and PEGs
- Surfactants
- Most water soluble ingredients that are not pH sensitive
- Most thickening additives including natural and synthetic polymers



This material meets the test requirements in the current US Pharmacopeia-National Formulary.