

# Curcylc™ 40

## Pre-solubilized Salicylic Acid Technology



### Curcylc™ 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**

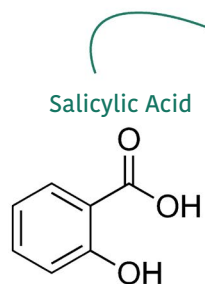
Recommended applications



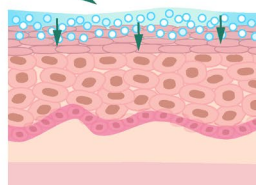
Facial Cleansers



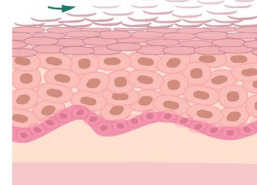
Skin Care



Curcylc™ 40 enables for skin cell renewal and pore cleansing



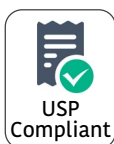
Salicylic Acid penetrates & softens keratin, a protein that's part of a critical process called cornification. It also breaks out desmosomes, which links cells together in the epidermis



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

**PATENT**

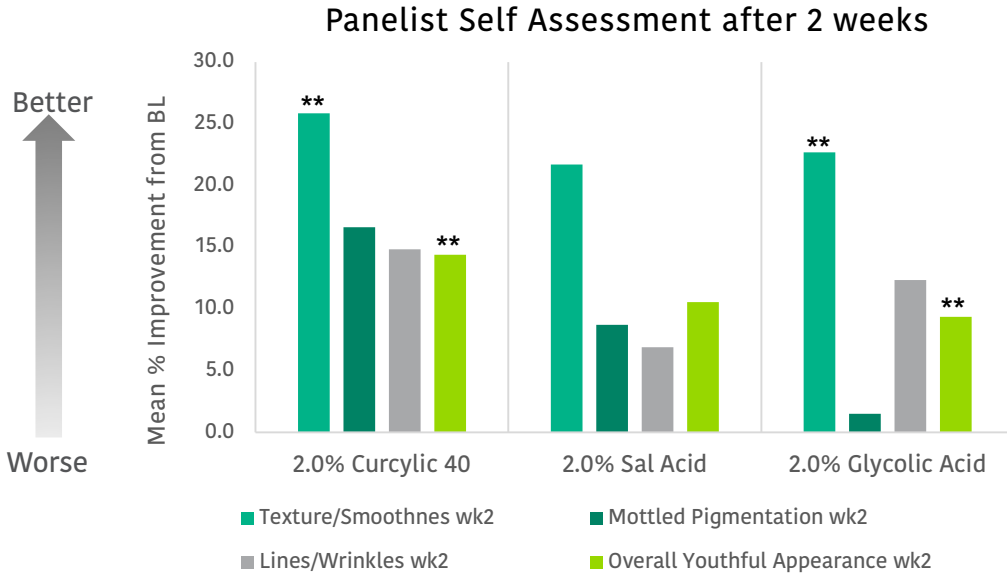
US 8,828,979 B2  
Salicylic Acid Gel



Vantage

# Panelist Assessment

Curcylc™ 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

- Curcylc™ 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

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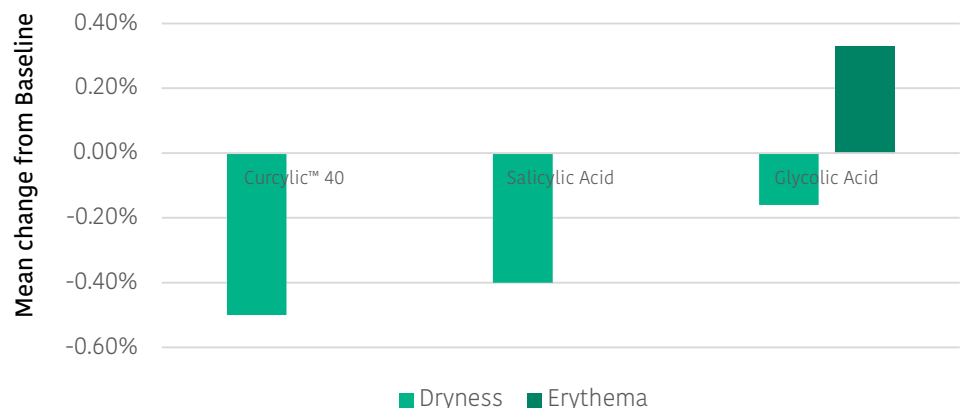
### Panelist self-assessment

Visual assessment by trained expert

### Criteria assessed:

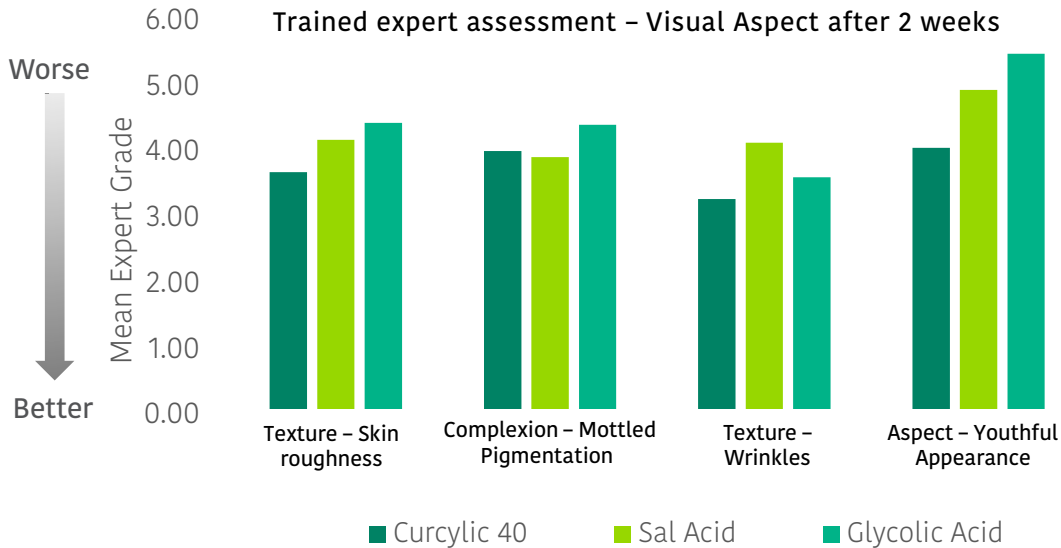
- Texture/Smoothness
- Mottled/Uneven pigmentation
- Lines/Wrinkles
- Overall youthful appearance

## Expert Assessment - Skin Dryness & Erythema after 2 weeks



# Visual Aspect

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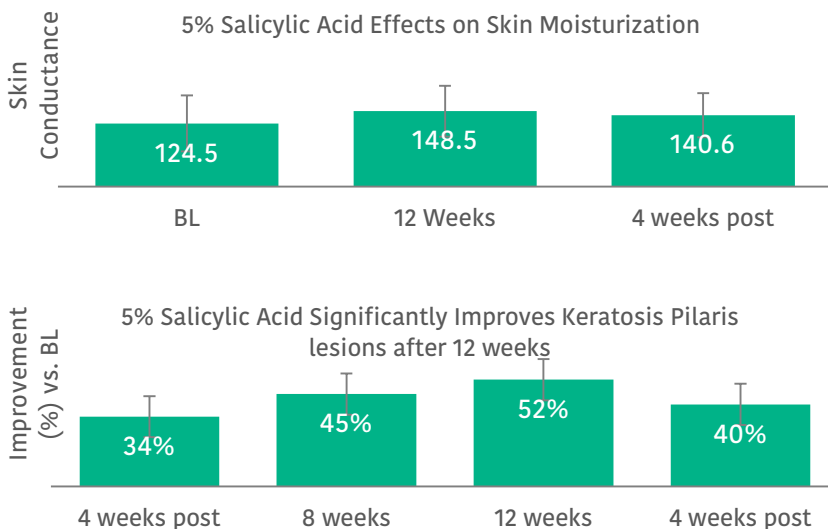
Panelist self-assessment  
Visual assessment by trained expert

### Criteria assessed:

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# 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.

# Curcyllic™ 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.*

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

## Formulation guidelines

Incorporation of Curcyllic™ 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 Curcyllic™ 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 Curcyllic™ 40 with mixing and cool to 25°C.
- Note: Curcyllic™ 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