

## Dedicated Dispenser for Alsoft Hand Cream

### UD-300T-WG



#### Automatic Dispenser

When you hold out your hand, the sensor automatically detects and dispenses gel/lotion with no touch

#### Compact

Compact tabletop type that can be placed in a small space

#### Functionality

Transparent front makes it easy to see what's inside

Do you have any concerns about the hand care products at the facility?



- ☹️ Dirty pumps and bottles
- ☹️ The amount of use vary in individuals
- ☹️ Stains due to dripping

With using UD-300T-WG Dispenser,

- ☺️ **Dispensed a certain amount automatically!**
  - No need to touch the bottle or the pumps, no soiling and hygienic for the user!
  - No matter who uses it, constant amount is discharged! Prevents the use of too much or too hand care lotion.
  - Hand care lotion is dispensed in just the right amount and won't spill out of your hand!
- ☺️ **Compact tabletop type that can be placed in a small space**
- ☺️ **Transparent front makes it easy to see what's inside**

<b>Model</b>	UD-300T-WG
<b>Dimension</b>	W90 x D104 x H205mm
<b>Weight</b>	Approximately 440g (excluding packaging, accessories, batteries and chemicals)
<b>Main material</b>	Main body, whole cover: ABS, PP General drive parts: POM
<b>Power supply</b>	Alkaline battery AA cell x 4
<b>Dispensed amount</b>	Alsoft hand cream: approx. 0.4mL/use Alcohol gel: approx. 1mL/use

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# SARAYA | Skin Care Program

Skin care leads to infection prevention and control



No interference with the effectiveness of hand disinfectants

## Why hand care is important for healthcare workers?

It is important to use hand care products frequently on a daily basis, regardless of whether you have rough hands or not. Hand care protects the skin from losing its ability to retain moisture and maintains the normal stratum corneum barrier function. It also protects the skin to keep moisture from evaporating, external stimuli, and foreign substances from entering the body.

WHO Guidelines on Hand Hygiene in Health Care states that "provide health care workers with hand lotions or creams to minimize the occurrence of irritant contact dermatitis associated with hand antisepsis or handwashing."<sup>(1)</sup>

Also, Guideline for Hand Hygiene in Health-Care Settings, CDC also states "studies demonstrate that several hand lotions have reduced skin scaling and cracking, which may reduce microbial shedding from the hands."<sup>(2)</sup>

<Reference>

(1) WHO Guidelines on Hand Hygiene in Health Care, WHO  
URL: <https://www.who.int/publications/i/item/9789241597906>

(2) Guideline for Hand Hygiene in Health-Care Settings, CDC  
URL: <https://www.cdc.gov/mmwr/PDF/rr/rr5116.pdf>

## Alsoft Hand Cream



### Product Features

Gently covers hands and keeps them moisturized.  
A hand lotion that is non-sticky and absorbs easily on skin.

### Dual moisturizing and protecting hand care

Protective ingredients (softening ingredients) such as petroleum jelly, shea butter, etc and moisturizing ingredients such as hyaluronic acid, sodium dilaureamidoglutamide lysine, etc are blended in a well balanced manner. As it contains both moisturizing and protective ingredients, it supplements the barrier function of the stratum corneum (hereafter, SC) while maintaining the water content of the skin. In addition, since there is less slimy feel when hands get wet, it does not affect work.

### Prevents rough skin with tocopherol

Contains tocopherol (Vitamin E) which is an ingredient that help prevent rough skin.

### Does not affect the efficacy of hand disinfectants nor the performance of medical gloves.

It does not affect the antibacterial action of hand disinfectants and the residual antibacterial action of hand sanitizing components, such as chlorhexidine gluconate. In addition, it also does not affect the performance of various gloves such as nitrile gloves and plastic gloves.

### Fragrance free, coloring free, preservative free

As the product is fragrance-free and color-free, there is no risk of fragrance or color adhering to medical equipment. In addition, it is also preservative free.

### Composition and Properties

Composition: Aqua, Cyclopentasiloxane, Glycerin, Butylene Glycol, Petrolatum, Cyclohexasiloxane, Pentylene Glycol, PEG-10 Dimethicone, Butyrospermum Parkii Butter, Tocopherol, Disteardimonium Hectorite, Hyaluronic Acid, Sodium Citrate, Dimethicone/Vinyl Dimethicone Crosspolymer, Ethylhexylglycerin, Citric Acid, Sodium Dilaureamido+ glutamide Lysine.

Properties: white emulsion cream with a slight base odor

Liquid: weak acidic

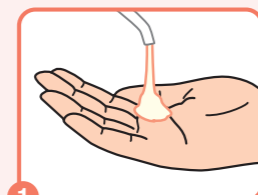


## How to apply hand care products (example)

### Preparation

If hands are visibly dirty, wash hands to remove dirt

### How to



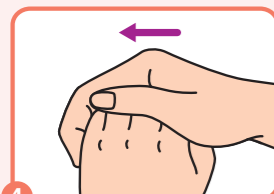
1 Put a small amount of hand care product on your hand.



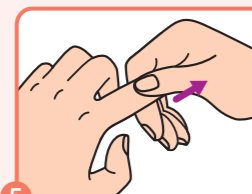
2 Spread on both palms while warming with body temperature.



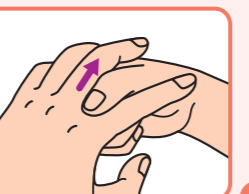
3 Spread from the back of your hand to fingertips.



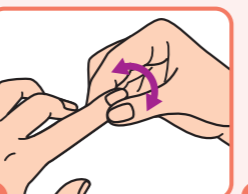
4 Bend your fingers, wrap your fingers in your palm, and spread along the crease.



5 Apply by stretching the joints and crease. Massage between fingers.



6 Apply while massaging the fingertips (around the nails) intensively.



7 Spread over hands until dry.

## Effect of preventing rough hands from repeated hand washing

Capacitance(\*) before hand washing was measured, Alsoft Hand Cream was applied on one hand. After that, the hand was left to dry thoroughly and washed with potassium soap 8 times repeatedly. After wiping water and applied Alsoft Hand Cream on the same hand again. The hand was left to dry thoroughly and washed again with potassium soap 8 times repeatedly. After that, the hand was left at least 15 minutes, the capacitance and transepidermal water loss (hereafter, TEWL) were measured.

The rate of change in the water content of the SC and TEWL were calculated by the following formulas.

■ Rate of change in water content of the SC (%) =  $A / B \times 100$

A: Capacitance after repeated hand washing  
B: Capacitance before repeated hand washing

■ Rate of change in TEWL (%) =  $C / D \times 100$

C: TEWL after repeated hand washing  
D: TEWL before repeated hand washing

### <Results>

It was found that compared to when no test product was applied, the rate of change in the water content of the SC was around 60% higher and the rate of change in TEWL was around 11% lower when Alsoft Hand Cream was applied.

(\*) If the skin contains a lot of water, the capacitance will increase.

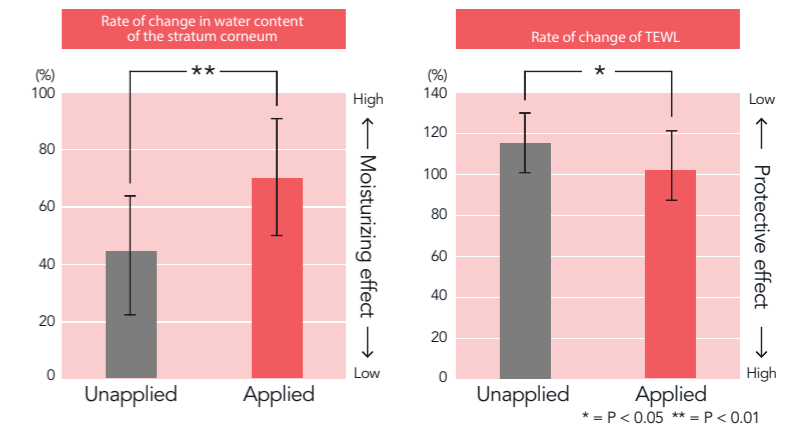


Table 1. Comparison of the rate of change in water content of the SC and TEWL (mean ± SD, n = 10)

## Effect of preventing rough hands from repeated hand disinfection

The distilled water was dropped on the subject's hand. After wiping the water away with a paper towel, the capacitance was measured after 30, 60, 90 and 120 seconds. Alsoft Hand Cream was applied to one hand and left to dry thoroughly, hand disinfection was repeated 10 times with 70w/w % ethanol. After that, Alsoft Hand Cream was applied again on the same hand. It was left to dry thoroughly, and hand disinfection was repeated 10 times with 70w/w % ethanol. After 4 hours, the capacitance was measured as mentioned above.

The rate of change in the water holding capacity of the SC was calculated by the following formulas.

■ Water holding capacity of the SC (%) =  $A / B \times 100$

A: Average capacitance at 30, 60, 90 and 120 seconds after water sorption  
B: Capacitance immediately after water sorption (0 seconds later)

■ Rate of change in water holding capacity of the SC (%) =  $D / C \times 100$

C: Water holding capacity of the SC before application  
D: Water holding capacity of the SC at 4 hours after application

### <Results>

It was found that the rate of change in the water holding capacity of the SC after repeated hand disinfection when Alsoft Hand Cream was applied was around 11% higher than when it was not applied.

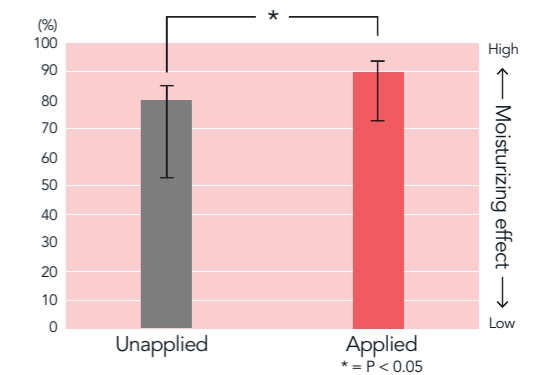


Table 2. Rate of change in water-holding capacity of the SC (mean ± SD, n = 10)

## When to use

- About every 4 hours (before starting work, after breaks, etc.)
- About every 10 hand hygiene
- Apply frequently according to the condition of the hand skin and the work to be done

