



Personal  
Care

## REACH 701L & REACH 9000

### REACH 701L

Ideal for emulsions and hydroalcoholic systems

#### INCI NAME:

Aluminium Chlorohydrate,  
Glycine, Calcium Chloride

#### FORMAT:

Liquid

#### APPLICATION:

- Roll-ons
- Creams
- Sprays
- Gels

### REACH 9000

Ideal for anhydrous formulas

#### INCI NAME:

Aluminium Chlorohydrate

#### FORMAT:

Powder

#### APPLICATION:

- Sprays

Enhanced  
Performance  
Through Applied  
Innovation

ELEMENTIS

## REACH 701L and REACH 9000 High efficacy aluminum antiperspirant actives

Elementis offers a complete range of ingredient solutions for a variety of different application formats such as roll-ons, aerosols, sticks and sprays, providing efficient sweat reduction across all performance levels. REACH 701L and REACH 9000 were designed for optimal efficacy in different application formats. Both provide significant reduction of perspiration from underarms, hands, feet, reduction of underarm odor (deodorancy) as well as antimicrobial against gm(+) micro-organisms.

REACH 701L is a chemically activated aqueous solution of aluminum chlorohydrate. It contains higher level of sweat effective aluminum species (Peak 4) compared to standard aluminum chlorohydrate. The active is clinically proven to provide all day extra effective protection. REACH 701L is specially designed for use in roll-ons as well as aqueous creams and gels. REACH 701L provides a minimum of 24 hours wetness and odor protection during normal application.

REACH 9000 is a high-performance enhanced efficacy active ingredient recommended for use in anhydrous suspension aerosols. REACH 9000 provides an exceedingly high level of peak 4 aluminum species for outstanding sweat protection compared to conventional ACH. REACH 9000 has been produced specifically for long lasting wetness and odor protection. This pH balanced active is particularly friendly in formulation and in combination with commonly used fragrances.

### Key Performance Benefits

- Reduction of perspiration from underarms, hands, feet
- Reduction of underarm odor (deodorancy)
- Antimicrobial against gm (+) micro-organisms
- Formulation flexibility
- **REACH 701L** provides a minimum of 24 hours wetness and odor protection
- **REACH 9000** provides exceedingly high level of peak 4 aluminum species

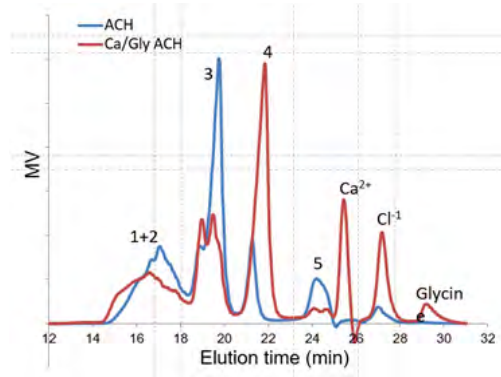




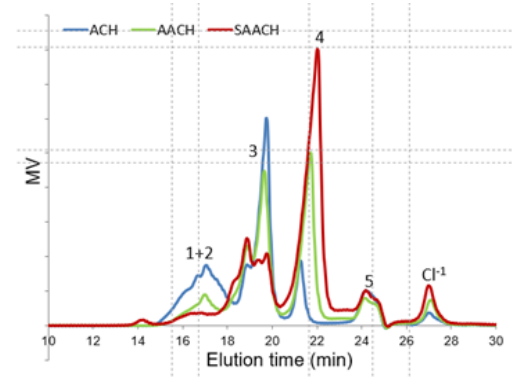
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**REACH 701L &  
REACH 9000**

Graphic 1



Graphic 2



The graphics illustrated above show a HPLC analysis of REACH 701L (graphic 1) and REACH 9000 (graphic 2) compared to standard grades of aluminum chlorohydrate. The Peak 4 reflects the aluminum species with the most suitable molecular size for acting as an antiperspirant active within the pores of skin and therefore is a key indicator to anticipate the effectiveness of an antiperspirant active: The higher the peak 4, the better supposedly the performance.

## Formulation



### Long-Lasting Efficacy - Antiperspirant Roll-On

An easy to prepare opaque emulsion that utilizes a highly effective REACH 701L — ACH solution that is chemically stabilized with calcium glycine. This active level provides high level of efficacy comparable to Aluminum Zirconium Penta salt without any of the disadvantages of aluminum zirconium actives.

Phase A	
Xiameter PMX 0245 (Cyclopentasiloxane) <sup>2</sup>	3.50
Lipocol P-15 (PPG-15 Stearyl Ether) <sup>3</sup>	2.50
Lipocol S-20 (Steareth-20) <sup>3</sup>	1.50
Lipocol S-2 (Steareth-2) <sup>3</sup>	2.50
PHASE B	
Deionized Water	25.83
PHASE C	
<b>Reach 701L</b> (Aluminum Chlorohydrate (and) Glycine (and) Calcium Chloride) <sup>1</sup>	64.17

1 Elementis 2 Dow 3 Vantage



### Long-Lasting Efficacy - Antiperspirant Aerosol

A superior long lasting sweat reduction aerosol antiperspirant formula with acceptable consumer aesthetics. The gas to concentrate ratio is appropriate for all geographies except where VOC regulations are restricted.

Phase A	
Xiameter PMX 345 (Cyclomethicone) <sup>2</sup>	5.20
Liponate IPM (Isopropyl Myristate) <sup>3</sup>	2.30
<b>BENTONE GEL® VS-5PC V HV</b> (Cyclopentasiloxane (and) Distearidimonium Hectorite (and) Propylene Carbonate) <sup>1</sup>	1.80
PHASE B	
<b>REACH 9000</b> (Aluminum Chlorohydrate) <sup>1</sup>	5.50
PHASE C	
Fragrance	0.20
PHASE D	
Hydrocarbon propellant	85.00

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