SILVÉRION® 2400
Deodorant Active for Personal Care

SILVÉRION 2400 is a water-soluble natural antimicrobial containing Silver Dihydrogen Citrate (SDC), a revolutionary, novel ionic silver technology for use in deodorant formulations.

Features and Benefits
• Strong activity against Corynebacteria
• Excellent water solubility
• Effective at low concentrations
• Good compatibility with cosmetic ingredients
• Prevents formation of body malodor
• Easy to formulate
• Broad range of product forms possible
• Cost-effective formulations

Differentiate your product with SILVÉRION® 2400
**Strong reduction of bacteria involved in body malodor formation**

Apocrine sweat glands located primarily in the axillary region produce a secretion containing proteins, sugars, ammonia and steroids. Freshly secreted apocrine sweat is sterile and odorless. Typical axillary odor is a result of apocrine sweat metabolized by resident skin bacteria, namely the Gram-positive *Corynebacterium* group. SILVÉRION 2400 prevents the formation of body malodor by reducing the number of bacteria available to metabolize human sweat. A study with a roll-on emulsion containing 0.3% SILVÉRION 2400 showed a 99.999% (i.e. 5 log) reduction of *Corynebacterium minutissimum* within 5 minutes.

**Efficient malodor prevention**

Efficacy of a deodorant formulation containing 0.3% SILVÉRION 2400 was investigated under in-vivo conditions with a panel of 18 volunteers.

- SILVÉRION 2400 is compatible with a broad range of cosmetic ingredients and stable in formulations with pH<7, including emulsions based on anionic and non-ionic emulsifiers and rinse-off products containing anionic, non-ionic or amphoteric surfactants.
- SILVÉRION 2400 is highly water soluble and easy to incorporate into emulsions produced in a cold process. During manufacturing of emulsions produced by hot process, SILVÉRION 2400 should be added to the final formulation after it has cooled down.
- SILVÉRION 2400 is an excellent tool for cosmetic formulators for the development of effective deodorant formulations with long-lasting freshness.