

Galactic's solutions for detergents



NATURAL - BIODEGRADABLE - BACTERIOSTATIC - MOISTURISING

Today's detergents industry increasingly demands natural active ingredients. Natural fermentation extracts such as lactic acid and its derivatives are the perfect answer. As Galactic's solutions are produced through fermentation of biomass, this process ensures that these solutions originate 100% from nature.

ENHANCING THE GENIUS OF NATURE





Our natural solutions for detergents



Key functionalities

Bacteriostatic

Galacid™, lactic acid, delivers outstanding bacteriostatic benefits in a variety of cleaning products and disinfectants, be it in home care, industrial or institutional applications. Being readily biodegradable and non-toxic to the environment and humans, **Galacid™** is the natural choice for cleaners.

Descaling

Due to its excellent descaling property, **Galacid™** is perfect for detergent applications such as machine descalers and, more commonly, household cleaners. It is particularly excellent as a descaler for coffee machines because of its neutral off-taste and salt deposits removal.

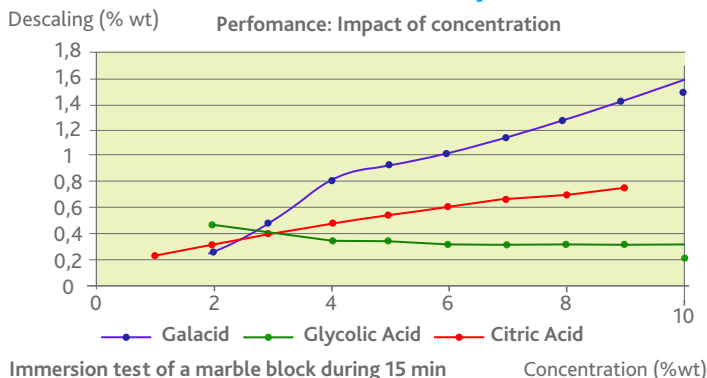
Moisturising

Galacid™ and **Galaflow™**, sodium lactate, are widely used in cosmetics as powerful moisturisers. Because of this, they are well-suited to detergent applications such as manual dishwashing and household cleaners in general.

pH regulator

To promote overall efficiency, controlling pH is critical in detergent formulations. **Galacid™** is the most effective solution to regulate pH. 33% less lactic acid is needed to regulate the PH, compared to other organic acids in-use.

Results with Galacid due to best solubility of Ca lactate salts



Natural advantages

Biodegradable and natural

Galacid™ is both quickly and highly biodegradable in water. **Galacid™** is recognised as being readily biodegradable in the environment as it is both a nutriment and a metabolite for microbes.

Soft for the skin

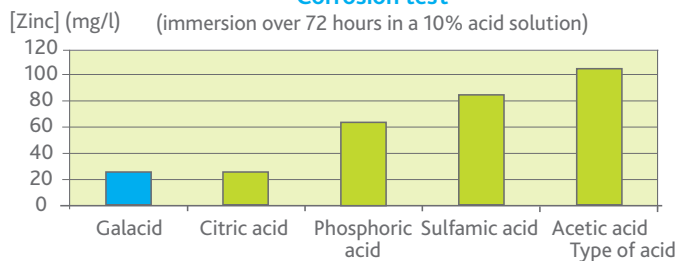
Lactic acid is generally considered as a NMF (Natural Moisturizing Factor). Therefore, incorporation of **Galacid™** and **Galaflow™** reduces skin dryness and irritation effects.

Compatibility

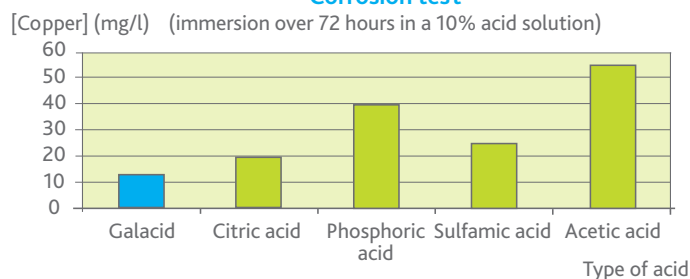
Galacid™ is particularly compatible with metals and plastics. Material compatibility is an important property for kitchen cleaners. Detergents containing acids may attack metal and plastic surfaces. **Galacid™** is very well-suited in this case because of its mild behaviour, whereas other acids are more aggressive on plastics and metals. **Galacid™**'s properties feature:

- No corrosion of metal;
- No stress-cracking of plastic surfaces.

Corrosion test



Corrosion test



Summary of Galactic's natural solutions for detergents

The table below summarises the key functions of our natural solutions, as well as the different product ranges we have depending on your particular application.

	Bathroom cleaners	Household cleaners	Manual dishwashing	Toilet cleaning	Industrial cleaning	Household machines
Bacteriostatic properties	Galacid™	Galacid™	Galacid™ Galaflow™	Galacid™	Galacid™	Galacid™
Descaling	Galacid™	Galacid™	Galacid™	Galacid™	Galacid™	Galacid™
Moisturising	Galacid™	/	Galacid™ Galaflow™	/	/	/
pH regulator	Galacid™	Galacid™	Galacid™	Galacid™	Galacid™	/

Our technical support team is on hand to assist you with any questions you may have on the application of our products. We would advise consulting the appropriate local authorities to ensure compliance with the latest legislation regarding use of our products.

Galacid™ and Galaflow™ are raw materials approved by ECOCERT GREENLIFE, conform to the ECOCERT Standard for Natural Detergents made with Organic.



Since 1994 Galactic has become one of the world's greatest leaders in biotechnology serving the food, feed, personal & health care, and industrial markets. Based on its valuable experience in the fermentation of lactic acid and other derivatives, Galactic continuously develops sustainable, innovative and health-friendly solutions in the field of food safety, nutrition and green chemistry. With headquarters and an innovation campus in Belgium, production facilities in the United States (Milwaukee), China (Bengbu) and Europe (Escanaffles), high-performance labs in China (Bengbu) and the United States (Milwaukee) and sales offices in Belgium (Brussels), Japan (Tokyo) and Brazil (Curitiba), Galactic employs more than 380 people worldwide and is active in 65 countries.



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