

# Motherferment Ingredients + What They Do

## Deionized Water

Ultra-purified water that serves as the base of the formula. Removing minerals and metals prevents unwanted reactions, improves stability, and avoids hard-water interference that can reduce cleaning performance.

## Sodium Gluconate

A food-grade, fermentation-derived chelator that binds hard-water minerals (like calcium and magnesium). This helps prevent mineral interference, reduces residue, and improves rinse-away cleaning, without harsh chelating chemicals.

## Gluconic Acid

A food-grade, fermentation-derived acid used for gentle pH control and mineral-soil loosening. Helps dissolve mineral buildup and supports consistent performance while staying biodegradable and non-aggressive compared to stronger acids.

## Biosurfactants

Nature-made cleaning molecules that lower surface tension and lift oils and soils so they can be rinsed away. Designed by biology (not petroleum chemistry), they're effective cleaners that biodegrade readily and are generally gentler than many conventional surfactant systems.

## Yeast Extract Proteins

Fermentation-derived peptides and amino acids that support cleaning performance by improving surface interaction and helping soils release. A bio-based performance booster that reduces reliance on harsh solvents or synthetic "boosters."

## 1,3-Propanediol

A fermentation-derived solvent/humectant that improves wetting and helps dissolve and mobilize soils. Enhances spread, penetration, and overall cleaning efficiency without petrochemical solvent systems.

## Oyster Mushroom Oligosaccharide

A food-grade carbohydrate from edible mushroom extraction that supports deep-surface penetration and helps disrupt stubborn buildup like surface films/biofilm, without relying on harsh antibiofilm chemistries.

## Essential Oil Fragrance (Lemongrass, Orange, Lavender)

Food grade, cold-pressed, plant-derived essential oils that provide a clean, fresh scent and light surface-refreshing properties, without petroleum-based synthetic fragrance systems.