



Why use Probiotic Laundry liquid instead of the standard washing liquid or powders?	Technical Note:	TM004
	Category:	Laundry

Superbugs could thrive

You may have noticed that over time your washing machine just doesn't smell as fresh. Especially if you wash at lower temperatures, this allows bacteria to survive the wash cycle. And we're not just talking a little harmless bacterium; we're talking about a multidrug-resistant bugs.

Research:

After inspecting the clothing of 13 new-borns in a neonatal intensive care unit at a German children's hospital, researchers found traces of a multidrug-resistant pathogen on the surface of the clothing. The bacteria apparently passed onto the clothing from previously washed knitted hats and socks — items used to keep the babies warm.

In the journal *Applied and Environmental Microbiology* concluded that the culprit was the "household-type" washing machine used to launder the clothing. It was thought that the final cold-water rinse, which didn't use detergent, may have allowed the resistant bacteria to flourish. Another culprit may have been the condensed residual water trapped on the rubber seal of the door. Anyone with a high-efficiency front load washer has likely noticed that gunk that collects in the seal.

Bacteria-trapping gunk

Standard detergents and fabric softeners leaves "gunk" made up of soap residue, fabric softener, minerals, and chemicals build ups in your machine. Creating a thin film that can trap bacteria. Bacteria tend to live in the detergent drawer, rubber seals around the door, and the washing drum. Washing machines by design, is dark, which creates a hot and humid environment — making it a perfect breeding ground for bacteria to thrive.

Beyond body odours that may not have been washed completely out of your clothes due to cold-water washes, you could be facing some serious mildew problems in your washer. Sure, heavily perfumed detergents and additives can mask those stinky odours, but once fragrance additives fade, those stinky odours become noticeable again.

How does Probiotic Laundry detergent work?

It is a standard dosage Laundry liquid (50-100ml) per wash depending on the size of your machine. All our Probiotic products contain millions of enzymes that work on the principle of competitive exclusion (beneficial enzymes eat more and can survive on less "food" than pathogens / viruses, bacteria, fungi / molds, etc. this causes these problem causers to die off at incredibly fast rates.

Enzymes are the "green cleaning chemicals" of nature. They are present in all living things, where they perform the essential functions of converting food to energy and new cell material.

They can be seen as the green cleaning chemicals of nature.

As catalysts these green cleaning chemicals speed up natural processes and create natural reactions that otherwise would not exist. Enzymes bind to the target material catalysing it into harmless basic elements

Enzymes can be classified by the types of material they work on:

Proteins, carbohydrates, fats, cellulose, and lipids. They can also be classified by the types of reactions they perform.

The key is that enzymes as green cleaning chemicals will outperform caustic chemicals and the natural oils found in other cleansers. Think of it as using a doctor's scalpel versus the atom bomb; more effective and avoid the collateral damage created by other chemical based cleaning products.

FAMILY & WORK SAFETY

Enzyme cleaners as green cleaning chemicals are non-toxic, non-caustic, hypoallergenic, free of harsh fumes and vapors, phosphates, chlorine and petroleum surfactants. Green chemicals are not corrosive and can safely be used on any surface not harmed by water.

Green cleaning chemicals are very specific in comparison to inorganic catalysts such as acids, alkalines, and petrochemicals found in traditional cleaners. They work exclusively on their target, therefore no unattended side affects and no significant warning labels. Have you read the caution labels on your chemical cleaners lately? Rubber gloves, ventilated work areas, and poison control contact instructions - is this safe?

Many consumers treat an antibacterial or sanitizing product as a cleaner. Unfortunately these products can be problematic and unsafe if not used properly. The Medical and Food Safety Councils require cleaning before sanitizing. Likewise, the Center for Disease Control (CDC) has strongly recommended that use of anti-bacterial cleaning solutions should be reduced because bacteria are becoming resistant to antibiotics. Never sanitize without cleaning first.

In contrast, the consistent use of our Hospital Grade Enzymes cleaners will reduce the re-growth of organisms, eliminating the invisible food sources that attract them. Enzymes keep working and waiting for moisture and a food source to renew the process.

ECOLOGY Enzymes come from biological systems, and when finished they are readily absorbed back into nature biodegradable and non-toxic. Likewise, the targets of the enzymatic conversion are non-toxic and readily broken down to their basic elements.

EFFECTIVE

For years the medical industry has cleaned with green chemical enzymes to remove organic material before moving to any sterilization process. Without thorough cleaning, harmful bacteria can simply return to grow in a friendly environment.

Another advantage is that any remaining enzymes will be re-activated upon contact with water. This characteristic aids in reducing future organic growth while continuously neutralizing lingering odours.

Use in conjunction with the following products for total Green cleaning trough out your entire environment:

Probiotic GP Cleaner: Very economical al surface cleaner, floors, kitchen stovetops, bathrooms toilets, urinals, laundry pre-stain remover, etc.

Probiotic Degreaser: Degreases all surfaces in kitchen, garage, etc.

Probiotic Cistern blocks: Saves water by taking up to 4 urinations before you need to flush the toilet.

Probiotic Urinal blocks and P-Gobbler pods: Same effective and wonderful smelling as the cistern blocks.

ECO & Probiotic Wash and Wax: very effective car wash and wax, outside and inside.

ECO-REMAKE (Pty) Ltd

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