



MultizymePlus

Super-concentrated multi-enzyme, sanitising laundry powder and soaker, low Phosphate* and biodegradable. Septic safe.

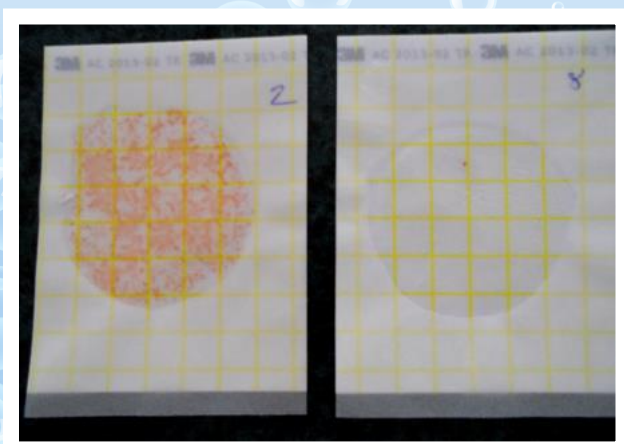
MULTIZYME-PLUS is a next-generation synthetic laundry powder, containing a highly active, yet low sudsing detergent for top and front-loading laundry machines. It is effective in cold or hot water up to 55 C. Silliker-approved for sanitising at 40°C. (See reverse for full details)

MULTIZYME-PLUS contains a bio-degradable oxygen bleach, so that your white come out whiter, and colours come out brighter. Soil suspending agents act to reduce greying on both natural and synthetic colours.

Multi-Enzyme System: A specially selected synergistic blend of Enzymes specifically to assist in the removal of bloods, grass, food and lipstick stains.

Proven Sanitising performance:

Example of reduction in microbiological activity, 3M Petrifilms taken prior and post 40°C contaminated load wash (Nursing Home):



Film 2 (prior to wash) shows >1 x 10⁶ CFU/cm² (TNC, Too Numerous to Count) and Film 8 Post cold wash with MULTIZYME PLUS < 1 CFU/cm² Results in excess of equivalent thermal disinfection requirements of Australian Laundry Practice Standard. AS/NZS: 4146: 2000.

*PHOSPHATE STATEMENT-NP

The compliance criteria for a Phosphate detergent according to ACCORD is 'NP' contains no phosphorus if the level of phosphorus measured is < = 0.5% in usage.



Our Ref: 451771271 an
 Purchase Order: 105426

30th August 2012

Castle Chemicals Pty Ltd
 16 Rural Drive
 SANDGATE NSW 2304

ATTENTION: GRAHAM HATFIELD

Dear Sir,

RE: ANTIBACTERIAL EVALUATION OF SAMPLE OF SANITISING LAUNDRY
 DETERGENT: CASTLE CHEMICALS 'MULTIZYME'

A sample marked Sample of Sanitising Laundry Detergent: Castle Chemicals 'Multizyme' was evaluated in accordance with the principles outlined in BS EN 1276:1997 under the following test conditions.

Product Concentration:	1.0% w/v
Contact Time:	10 mins
Organic Challenge:	0.3% Bovine Albumin (dirty conditions)
Temperature:	40°C
Test Organisms:	<i>Escherichia coli</i> ATCC 8739 <i>Staphylococcus aureus</i> ATCC 6538

Results

Organism	Initial Count per mL	Final Count per mL 10 mins	Log Reduction
<i>Escherichia coli</i>	3.7 x 10 ⁷	<10	>5.0
<i>Staphylococcus aureus</i>	3.1 x 10 ⁷	1.0 x 10 ¹	>5.0

Notes: 1. '<' indicates Less Than. 2. '>' indicates Greater Than
 3. Counts are Geometric Means of Duplicate results.

Conclusions

The product achieved a greater than 5.0 log reduction (>99.999% Kill) against the organisms when tested according to the above prescribed conditions.

Yours faithfully,



DAVID LIM B.Sc, MASM, MAIFST
 MICROBIOLOGIST

The data pertains solely to the analytical and sampling procedure(s) used and the condition and homogeneity of the sample(s) as received. The data therefore may not be representative of the lot or batch or other samples. Consequently the data may not necessarily justify the acceptance or rejection of a lot or batch, a product recall or support legal proceedings. It is the responsibility of the client to provide all information relevant to the analysis requested. This report does not imply that Silliker Australia Pty Ltd has been engaged to consult upon the consequences of the analysis and for any action that should be taken as a result of the analysis.

TGA Licence No. 77007

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