



*concentrated performance made convenient*

# Complete

Multizyme**Plus**

## **Soluble**Sachet

- Premium laundry detergent powder
- Super-concentrated multi-enzyme, sanitising laundry powder and soaker, with added fabric softener
- Phosphate-free & biodegradable.
- Septic safe.



**COMPLETE** 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.



**COMPLETE** 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.



Castle has partnered with Australian businesses to produce a single-dose, water-soluble sachet of the highest-quality laundry detergent available.

**Just drop it in the chamber, and enjoy fast, consistent results.**

**Reduce wash time by 30%**

**Reduce water use with reduced rinse cycles**

**One 35g sachet per 7-9kg wash load**



*'Solutions, Chemistry, Service'*

### CASTLE CHEMICALS

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[ccsales@castlechem.com.au](mailto:ccsales@castlechem.com.au) | [www.castlechem.com.au](http://www.castlechem.com.au)



Our Ref: 451771271 an  
Purchase Order: 105426

30<sup>th</sup> 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>	$3.7 \times 10^7$	<10	>5.0
<i>Staphylococcus aureus</i>	$3.1 \times 10^7$	$1.0 \times 10^1$	>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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