

Pass results for CondenCide,
PreClean for BS/EN 1275
Fungicide and EasyCare for
BS/EN 1040 Bacteria



MGS LABORATORIES
Contract Microbiology & Services

Unit 9, Brunel Science Centre, Coopers Hill Lane, Egham, Surrey, TW20 0JZ
Telephone: 01784 479138 Fax: 01784 479138

FAO: Graeme Gould

Client Name: Advanced Engineering Ltd

Our Ref: SO 124

Purchase Order AB 1635

Certificate of Analysis

Disinfectant Suspension Tests

Test	Organism	Pass criteria	Product	Log reduction	Result	Validation Pass criteria >25%	
BS EN 1275	N	<i>A. niger</i>	Log 4	Condencide 081233 MGS 3652	>4.9	PASS	87% (PASS)
				PreClean 011240 MGS 3653	>4.9	PASS	98% (PASS)
				RTU coil cleaner 0611257 MGS 3654	3.8	FAIL	92% (PASS)
				Aztec aerosol 1384 MGS 3655	2.7	FAIL	90% (PASS)
BS EN 1040	F	<i>S. aureus</i>	Log 5	Aztec aerosol 1384 MGS 3655	>6.7	PASS	94% (PASS)

N - Neutralisation method

F - Membrane filtration method

Prepared by:

K. Allison

Approved by:

Bob Grant

Name: Kyle Allison
Position: Microbiologist

Name: Bob Grant
Position: Director

Date:

4/10/02



MGS LABORATORIES
 Control Microbiology Services

Unit 9, Brunel Science Centre, Coopers Hill Lane, Egham, Surrey, TW20 0JZ
 Telephone: 01784 479138 Fax: 01784 479138

FAO: Graeme Gould Client Name: Advanced Engineering Ltd
 Our Ref: SO 117 Purchase Order: AB 1617
 MGS No: S 3655 Product: Aerosol Cleaner
 Batch No: 1384

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 2 SEP 2002

Certificate of Analysis

Disinfectant Suspension Test

BY:

Test	Organism	TEST RESULTS (LOG REDUCTION)						VALIDATION (Pass criteria >25%)
		Pass criteria	CLEAN		DIRTY			
BS EN 1276	N <i>P.aeruginosa</i>	Log 5	>6.9	PASS	>6.5	PASS	90% (PASS)	
BS EN 1276	F <i>E. coli</i>	Log 5	>6.6	PASS	6.3	PASS	100% (PASS)	
BS EN 1276	F <i>E. hirae</i>	Log 5	>6.6	PASS	>6.6	PASS	>100% (PASS)	
BS EN 1276	N <i>S. aureus</i>	Log 5	>7.0	PASS	<4.5	FAIL	82% (PASS)	
BS EN 1650	N <i>A. niger</i>	Log 4	<2.0	FAIL	<2.0	FAIL	>100% (PASS)	
BS EN 1650	N <i>C. albicans</i>	Log 4	>5.9	PASS	>5.9	PASS	77% (PASS)	

N = Neutralisation method

F = Membrane filtration method

Prepared by:

Approved by:

K. Allison

Bob Grant

Name: Kyle Allison
 Position: Microbiologist

Name: Bob Grant
 Position: Director

Date: 19/9/02



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FAO: Graeme Gould

Client Name: Advanced Engineering Ltd

Our Ref: SO 121

Purchase Order AB 1629

RECEIVED
 23 OCT 2002

Certificate of Analysis

Disinfectant Suspension Tests

BY:

Test	Organism	Pass criteria	Product	Log reduction		Result	Validation Pass criteria >25%
				Clean	Dirty		
BS EN 1276 5.1.1	F <i>Legionella pneumophila</i> NCTC 12821	Log 5	Condencide 081233 MGS 3652	>6.6	>6.6	PASS	32% (PASS)
			PreClean 011240 MGS 3653	>6.6	>6.6	PASS	40% (PASS)
			RTU coil cleaner 0611257 MGS 3654	>6.6	>6.6	PASS	41% (PASS)
			Aztec aerosol 1384 MGS 3655	>6.6	>6.6	PASS	81% (PASS)

N = Neutralisation method

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Prepared by:

K. Allison

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Bob Grant

Name: Kyle Allison
 Position: Microbiologist

Name: Bob Grant
 Position: Director

Date: 24/10/02



MGS LABORATORY

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FAO: Graeme Gould Client Name: Advanced Engineering Ltd
Our Ref: SO 117 Purchase Order: AB 1617
MGS No: S 3653 Product: Preclean
Batch No: 011240

Certificate of Analysis

Disinfectant Suspension Test

Test	Organism	TEST RESULTS (LOG REDUCTION)						VALIDATION (Pass criteria >25%)
		Pass criteria	CLEAN		DIRTY			
BS EN 1276	N <i>P.aeruginosa</i>	Log 5	>6.9	PASS	6.6	PASS	83% (PASS)	
BS EN 1276	F <i>E. coli</i>	Log 5	>6.6	PASS	>6.6	PASS	88% (PASS)	
BS EN 1276	F <i>E. hirae</i>	Log 5	>6.5	PASS	>6.5	PASS	>100% (PASS)	
BS EN 1276	F <i>S. aureus</i>	Log 5	6.1	PASS	6.2	PASS	38% (PASS)	
BS EN 1650	N <i>A. niger</i>	Log 4	3.6	FAIL	3.0	FAIL	94% (PASS)	
BS EN 1650	N <i>C. albicans</i>	Log 4	>5.9	PASS	4.9	PASS	86% (PASS)	

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Prepared by:

K. Allison

Approved by:

Bob Grant

Name: Kyle Allison
Position: Microbiologist

Name: Bob Grant
Position: Director

Date: 13/9/02



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FAO: Graeme Gould

Client Name: Advanced Engineering Ltd

Our Ref: SO 128

Purchase Order AB 1646

Certificate of Analysis

Disinfectant Suspension Test

Test	Organism	Pass criteria	Product	Log reduction	Result	Validation Pass criteria	
BS EN 1275	N	<i>A. niger</i>	Log 4	RTU coil cleaner 0611277 MGS 4036	>4.2	PASS	>25% >100% (PASS)

N - Neutralisation method

F - Membrane filtration method

Prepared by:

A handwritten signature in black ink that reads "K. Allison".

Approved by:

A handwritten signature in black ink that reads "Bob Grant".

Name: Kyle Allison
Position: Microbiologist

Name: Bob Grant
Position: Director

Date: 30/10/02



Unit 9, Brunel Science Centre, Coopers Hill Lane, Egham, Surrey, TW20 OJZ
Telephone: 01784 479138 Fax: 01784 479138

FAO: Graeme Gould Client Name: Advanced Engineering Ltd
Our Ref: SO 117 Purchase Order: AB 1617
MGS No: S 3652 Product: Condensate
Batch No: 081233

Certificate of Analysis

Disinfectant Suspension Test

Test		Organism	TEST RESULTS (LOG REDUCTION)				VALIDATION (Pass criteria >25%)	
			Pass criteria	CLEAN		DIRTY		
BS EN 1276	N	<i>P. aeruginosa</i>	Log 5	>6.9	PASS	>6.5	PASS	>100% (PASS)
BS EN 1276	F	<i>E. coli</i>	Log 5	>6.6	PASS	>6.6	PASS	88% (PASS)
BS EN 1276	F	<i>E. hirae</i>	Log 5	>6.5	PASS	>6.5	PASS	>100% (PASS)
BS EN 1276	F	<i>S. aureus</i>	Log 5	>6.7	PASS	6.7	PASS	16% (FAIL)*
BS EN 1650	N	<i>A. niger</i>	Log 4	3.5	FAIL	3.1	FAIL	91% (PASS)
BS EN 1650	N	<i>C. albicans</i>	Log 4	>5.9	PASS	>5.9	PASS	63% (PASS)

* Marginal validation failure but result accepted due to satisfactory plate count

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Prepared by:

K Allison

Approved by:

Bob Grant

Name: Kyle Allison
Position: Microbiologist

Name: Bob Grant
Position: Director

Date: *13/9/02*



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FAO: Graeme Gould Client Name: Advanced Engineering Ltd
 Our Ref: SO 117 Purchase Order: AB 1617
 MGS No: S 3654 Product: RTU Cleaner
 Batch No: 0611257

Certificate of Analysis

Disinfectant Suspension Test

Test	Organism	TEST RESULTS (LOG REDUCTION)						VALIDATION (Pass criteria >25%)
		Pass criteria	CLEAN		DIRTY			
BS EN 1276 N	<i>P.aeruginosa</i>	Log 5	6.6	PASS	>6.5	PASS	97% (PASS)	
BS EN 1276 F	<i>E. coli</i>	Log 5	>6.6	PASS	>6.6	PASS	86% (PASS)	
BS EN 1276 F	<i>E. hirae</i>	Log 5	>6.5	PASS	>6.5	PASS	>100% (PASS)	
BS EN 1276 F	<i>S. aureus</i>	Log 5	>6.7	PASS	>6.7	PASS	28% (PASS)	
BS EN 1650 N	<i>A. niger</i>	Log 4	3.5	FAIL	3.2	FAIL	>100% (PASS)	
BS EN 1650 N	<i>C. albicans</i>	Log 4	>5.9	PASS	>5.9	PASS	79% (PASS)	

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Prepared by: *K. Allison*

Approved by:

Bob Grant

Name: Kyle Allison
 Position: Microbiologist

Name: Bob Grant
 Position: Director

Date: 13/9/02