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**MASTER MICROBIOLOGY CULTURE RESULTS**

**Author**

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# Aspirata Microbiological & Chemical Laboratory

Unit 2, Berkley Office Park, 8 Bauhinia Street, Highveld Technopark, CENTURION

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# TEST REPORT

AMCL17/25640

Report number: M17/4554



Page 1 of 3

## CLIENT DETAILS:

Client reference / Order number: 1000643698  
 Client name: CSIR (Built Enviroment)  
 Address: P.O Box 395 Pretoria 0001  
 Fax number:  
 Telephone number: 012 841 2078 / 012 841 3593  
 E-mail address: [jnice@csir.co.za](mailto:jnice@csir.co.za)

Report date: 2017-08-28

Sampling date: 2017-07-05

Date samples recieved: 2017-07-05

	Sample	Sample	Sample	Sample	Sample
Laboratory number:	M17/4554/1.1	M17/4554/1.2	M17/4554/1.3	M17/4554/1.4	M17/4554/1.5
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate
Client sample reference:	21C A	21C B	21C C	21C D	239A
Commencement date of test:	2017-07-05	2017-07-05	2017-07-05	2017-07-05	2017-07-05
Completion date of test:	2017-08-11	2017-08-11	2017-08-11	2017-08-11	2017-08-11
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable



Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Staphylococcus cohnii ssp cohnii 99.9%	Mycobacterium nebraskense 50.0%; Bacteroides ovatus/xylanisolvans 50.0%	Bacillus simplex 99.9%	Bacillus altitudinis/pumilus 99.9%	Serratia liquefaciens 99.9%

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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AMCL17/25640

Report number: M17/4554



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	Sample	Sample	Sample	Sample	Sample
Laboratory number:	M17/4554/1.6	M17/4554/1.7	M17/4554/1.8	M17/4554/1.9	M17/4554/1.10
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate
Client sample reference:	239B	239C	240A	240B	240C
Commencement date of test:	2017-07-05	2017-07-05	2017-07-05	2017-07-05	2017-07-05
Completion date of test:	2017-08-11	2017-08-11	2017-08-11	2017-08-11	2017-08-11
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable



Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Staphylococcus aureus 99.9%	Nocardia cyriacigeorgica 99.2%	Staphylococcus hominis 99.9%	Bacillus altitudinis/pumilus 99.9%	Gordonia sputi 99.9%

## NOTES:

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# TEST REPORT

AMCL17/25640

Report number: M17/4554



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Test Method Used	Analysis	Units	Sample	Sample		
	Laboratory number:		M17/4554/1.11	M17/4554/1.12		
	Sample type:		Culture plate	Culture plate		
	Client sample reference:		241A	241B		
	Commencement date of test:		2017-07-05	2017-07-05		
	Completion date of test:		2017-08-11	2017-08-11		
	Condition of sample:		Acceptable	Acceptable		
AMS-AML-303	Organism Identification	---	Acinetobacter Iwoffii 99.9%	Acinetobacter radioresistens 99.9%		

Comment:

Approved signatory:

Philani Nkosi

Quality Microbiologist

-----  
Name in full

-----  
Designation

-----  
Signature

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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# TEST REPORT

AMCL17/25640  
 Report number: M17/4556



## CLIENT DETAILS:

Client reference / Order number: 1000643698 (Bag 2)  
 Client name: CSIR (Built Enviroment)  
 Address: P.O Box 395 Pretoria 0001  
 Fax number:  
 Telephone number: 012 841 2078 / 012 841 3593  
 E-mail address: [jnice@csir.co.za](mailto:jnice@csir.co.za)

Report date: 2017-09-12  
 Sampling date: 2017-07-05  
 Date samples recieved: 2017-07-05

	Sample	Sample	Sample	Sample	Sample
Laboratory number:	M17/4556/1.1	M17/4556/1.2	M17/4556/1.4	M17/4556/1.6	M17/4556/1.8
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate
Client sample reference:	242A	242B	243B	244A	245A
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07	2017-07-07	2017-07-07
Completion date of test:	2017-08-31	2017-08-31	2017-08-31	2017-08-31	2017-08-31
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable



Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Pseudomonas luteola	Spot/Organism Failed	Spot/Organism Failed	Spot/Organism Failed	Staphylococcus epidermidis

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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# TEST REPORT

AMCL17/25640

Report number: M17/4556



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	Sample	Sample			
Laboratory number:	M17/4556/1.9	M17/4556/1.13			
Sample type:	Culture plate	Culture plate			
Client sample reference:	245B	247C			
Commencement date of test:	2017-07-07	2017-07-07			
Completion date of test:	2017-08-31	2017-08-31			
Condition of sample:	Acceptable	Acceptable			
Test Method Used	Analysis	Units			
AMS-AML-303	Organism Identification	---	Spot/Organism Failed	Spot/Organism Failed	

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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# TEST REPORT

AMCL17/25640

Report number: M17/4556



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	Sample	Sample	Sample	Sample	Sample
Laboratory number:	M17/4556/1.3	M17/4556/1.5	M17/4556/1.7	M17/4556/1.10	M17/4556/1.11
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate
Client sample reference:	243A	243C	244B	245C	247A
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07	2017-07-07	2017-07-07
Completion date of test:	2017-08-31	2017-08-31	2017-08-31	2017-08-31	2017-08-31
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable

Test Method Used	Analysis	Units					
AMS-AML-303*	Organism Identification	---	Achromobacter xylosoxidans; Achromobacter denitrificans	Achromobacter denitrificans; Achromobacter xylosoxidans	Pseudomonas viridiflava	Bacillus vallismortis; Bacillus subtilis; Bacillus amyloliquefaciens	Achromobacter denitrificans; Achromobacter xylosoxidans
---	Confidence Value	%	50.0%;50.0%	50.0%; 50.0%	50.0%	33.3%; 33.3%; 33.3%	50.0%; 50.0%

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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# TEST REPORT

AMCL17/25640

Report number: M17/4556



Page 4 of 4



## Sample

Laboratory number:	M17/4556/1.12				
Sample type:	Culture plate				
Client sample reference:	247B				
Commencement date of test:	2017-07-07				
Completion date of test:	2017-08-31				
Condition of sample:	Acceptable				

Test Method Used	Analysis	Units				
AMS-AML-303*	Organism Identification	---	Achromobacter xylosoxidans; Achromobacter denitrificans			
---	Confidence Value	%	50.0%; 50.0%			

Comment:

Approved signatory:

Philani Nkosi

Quality Microbiologist

-----  
Name in full

-----  
Designation

-----  
Signature

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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# TEST REPORT

AMCL17/25640  
 Report number: M17/4558



Page 1 of 3

## CLIENT DETAILS:

Client reference / Order number: 1000643698 (Bag 3)  
 Client name: CSIR (Built Enviroment)  
 Address: P.O Box 395 Pretoria 0001  
 Fax number:  
 Telephone number: 012 841 2078 / 012 841 3593  
 E-mail address: [jnice@csir.co.za](mailto:jnice@csir.co.za)

Report date: 2017-09-12

Sampling date: 2017-07-05

Date samples recieved: 2017-07-05

	Sample	Sample	Sample	Sample	Sample
Laboratory number:	M17/4558/1.1	M17/4558/1.3	M17/4558/1.4	M17/4558/1.5	M17/4558/1.6
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate
Client sample reference:	248A	248C	249A	249B	250A
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07	2017-07-07	2017-07-07
Completion date of test:	2017-08-31	2017-08-31	2017-08-31	2017-08-31	2017-08-31
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable



Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Enterococcus faecium	Staphylococcus haemolyticus	Acinetobacter lwoffii	Spot/Organism failed	Pseudomonas putida

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as &lt;10Cfu/g/ml or

&lt;1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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# TEST REPORT

AMCL17/25640

Report number: M17/4558



Page 2 of 3



	Sample	Sample	Sample	Sample	Sample
Laboratory number:	M17/4558/1.7	M17/4558/1.8	M17/4558/1.9	M17/4558/1.10	M17/4558/1.12
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate
Client sample reference:	251A	251B	251C	252A	252C
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07	2017-07-07	2017-07-07
Completion date of test:	2017-08-31	2017-08-31	2017-08-31	2017-08-31	2017-08-31
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable

Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Staphylococcus hominis	Bacillus cereus group	Spot/Organism failed	Pantoea agglomerans; Pseudomonas fluorescens;	Bacillus cereus group

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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# TEST REPORT

AMCL17/25640

Report number: M17/4558



Page 3 of 3

Test Method Used	Analysis	Units	Sample	Sample		
	Laboratory number:		M17/4558/1.2	M17/4558/1.11		
	Sample type:		Culture plate	Culture plate		
	Client sample reference:		248B	252B		
	Commencement date of test:		2017-07-07	2017-07-07		
	Completion date of test:		2017-08-31	2017-08-31		
	Condition of sample:		Acceptable	Acceptable		
AMS-AML-303*	Organism Identification	---	Bacillus amyloliquefaciens	Lysinibacillus fusiformis		
---	Confidence Value	%	33.3%	50.0%		



Comment:

Approved signatory:

Philani Nkosi

Quality Microbiologist

-----  
Name in full

-----  
Designation

-----  
Signature

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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# TEST REPORT

AMCL17/25640

Report number: M17/4560



Page 1 of 3

## CLIENT DETAILS:

Client reference / Order number: 1000643698 (Bag 4)

Client name: CSIR (Built Enviroment)

Address: P.O Box 395 Pretoria 0001

Fax number:

Telephone number: 012 841 2078 / 012 841 3593

E-mail address: [jnice@csir.co.za](mailto:jnice@csir.co.za)

Report date: 2017-09-12

Sampling date: 2017-07-05

Date samples recieved: 2017-07-05



	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/4560/1.1	M17/4560/1.2	M17/4560/1.3	M17/4560/1.4	M17/4560/1.5		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	253A	253B	253C	254A	254B		
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07	2017-07-07	2017-07-07		
Completion date of test:	2017-08-31	2017-08-31	2017-08-31	2017-08-31	2017-08-31		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Staphylococcus epidermidis ; Paenibaciillus pabuli	Staphylococcus epidermidis ; Paenibacillus pabuli	Spot/Organism failed	Spot/Organism failed	Baciilus altitudinis/pumilus

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

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ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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# TEST REPORT

AMCL17/25640

Report number: M17/4560



Page 2 of 3



	Sample	Sample	Sample	Sample	Sample
Laboratory number:	M17/4560/1.6	M17/4560/1.7	M17/4560/1.8	M17/4560/1.9	M17/4560/1.10
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate
Client sample reference:	254C	254D	255A	255B	255C
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07	2017-07-07	2017-07-07
Completion date of test:	2017-08-31	2017-08-31	2017-08-31	2017-08-31	2017-08-31
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable

Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Spot/Organism failed	Bacillus cereus group	Bacillus cereus group	Acinetobacter lwoffii	Staphylococcus cohnii ssp urealyticus

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

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<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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# TEST REPORT

AMCL17/25640

Report number: M17/4560



Page 3 of 3



Test Method Used	Analysis	Units	Sample	Sample		
	Laboratory number:		M17/4560/1.11	M17/4560/1.12		
	Sample type:		Culture plate	Culture plate		
	Client sample reference:		256A	257A		
	Commencement date of test:		2017-07-07	2017-07-07		
	Completion date of test:		2017-08-31	2017-08-31		
	Condition of sample:		Acceptable	Acceptable		
AMS-AML-303	Organism Identification	---	Pseudomonas fluorescens	Acinetobacter lwoffii		

Comment:

Approved signatory:

Philani Nkosi

Quality Microbiologist

-----  
Name in full

-----  
Designation

-----  
Signature

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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\* Not SANAS Accredited tests and are not included in the SANAS Schedule of Accreditation for this laboratory

\*\* Opinions and interpretations expressed herein are outside the scope of SANAS Accreditation

# Aspirata Microbiological & Chemical Laboratory

Unit 2, Berkley Office Park, 8 Bauhinia Street, Highveld Technopark, CENTURION  
 PO Box 905, PRETORIA, 0001  
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 E-mail: [Jasomay.pillay@aspirata.co.za](mailto:Jasomay.pillay@aspirata.co.za)  
 Web address: [www.aspirata.co.za](http://www.aspirata.co.za)

# TEST REPORT

AMCL17/25640  
 Report number: M17/4561



Page 1 of 3

## CLIENT DETAILS:

Client reference / Order number: 1000643698 (Bag 5)  
 Client name: CSIR (Built Enviroment)  
 Address: P.O Box 395 Pretoria 0001  
 Fax number:  
 Telephone number: 012 841 2078 / 012 841 3593  
 E-mail address: [jnice@csir.co.za](mailto:jnice@csir.co.za)

Report date: 2017-09-12

Sampling date: 2017-07-05

Date samples recieved: 2017-07-05

	Sample	Sample	Sample	Sample	Sample
Laboratory number:	M17/4561/1.1	M17/4561/1.2	M17/4561/1.3	M17/4561/1.4	M17/4561/1.5
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate
Client sample reference:	258A	258B	258C	259A	259B
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07	2017-07-07	2017-07-07
Completion date of test:	2017-08-31	2017-08-31	2017-08-31	2017-08-31	2017-08-31
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable



Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Pantoea agglomerans	Acinetobacter lwoffii	Ochrobactrum intermedium	Pseudomonas fluorescens	Pseudomonas fluorescens

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as &lt;10Cfu/g/ml or

&lt;1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

This test report applies only to the samples tested.

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Web address: [www.aspirata.co.za](http://www.aspirata.co.za)

# TEST REPORT

AMCL17/25640

Report number: M17/4561



Page 2 of 3



	Sample	Sample	Sample	Sample		
Laboratory number:	M17/4561/1.7	M17/4561/1.8	M17/4561/1.9	M17/4561/1.11		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	260A	260B	261A	261C		
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07	2017-07-07		
Completion date of test:	2017-08-31	2017-08-31	2017-08-31	2017-08-31		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Pseudomonas fluorescens	Spot/Organism Failed	Spot/Organism Failed	Staphylococcus capitis

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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Page 3 of 3



Test Method Used	Analysis	Units	Sample	Sample		
	Laboratory number:		M17/4561/1.6	M17/4561/1.10		
	Sample type:		Culture plate	Culture plate		
	Client sample reference:		259C	261B		
	Commencement date of test:		2017-07-07	2017-07-07		
	Completion date of test:		2017-08-31	2017-08-31		
	Condition of sample:		Acceptable	Acceptable		
AMS-AML-303*	Organism Identification	---	Enterobacter asburiae	Bacillus vallismortis		
---	Confidence Value	%	50.0%	33.3%		

Comment:

Approved signatory:

Philani Nkosi

Quality Microbiologist

Name in full

Designation

Signature

**NOTES:**

Cfu: Colony Forming Units

ND: Not Detected

ND defined as &lt;10Cfu/g/ml or

&lt;1 Cfu/g/ml

ND defined as &lt;100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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# TEST REPORT

AMCL17/25640

Report number: M17/4570



## CLIENT DETAILS:

Client reference / Order number: 1000643698 (Bag 6)

Client name: CSIR (Built Enviroment)

Address: P.O Box 395 Pretoria 0001

Fax number:

Telephone number: 012 841 2078 / 012 841 3593

E-mail address: [jnice@csir.co.za](mailto:jnice@csir.co.za)

Report date: 2017-09-12

Sampling date: 2017-07-05

Date samples recieved: 2017-07-05



	Sample	Sample	Sample	Sample	Sample	
Laboratory number:	M17/4570/1.1	M17/4570/1.2	M17/4570/1.4	M17/4570/1.5	M17/4570/1.7	
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate	
Client sample reference:	262A	262B	263B	264A	265A	
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07	2017-07-07	2017-07-07	
Completion date of test:	2017-08-31	2017-08-31	2017-08-31	2017-08-31	2017-08-31	
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable	
Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Spot/organism failed	Bacillus simplex	Bacillus simplex	Staphylococcus epidermidis
						Pseudomonas putida

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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# TEST REPORT

AMCL17/25640

Report number: M17/4570



Page 2 of 3



	Sample	Sample	Sample	Sample	Sample
Laboratory number:	M17/4570/1.8	M17/4570/1.9	M17/4570/1.12	M17/4570/1.13	M17/4570/1.14
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate
Client sample reference:	265B	265C	267B	268A	268B
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07	2017-07-07	2017-07-07
Completion date of test:	2017-08-31	2017-08-31	2017-08-31	2017-08-31	2017-08-31
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable

Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Pseudomonas putida	Pseudomonas putida	Pantoea agglomerans; Enterococcus faecium	Bacillus megaterium	Spot/organism failed

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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# TEST REPORT

AMCL17/25640

Report number: M17/4570



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	Sample	Sample	Sample	Sample
Laboratory number:	M17/4570/1.3	M17/4570/1.6	M17/4570/1.10	M17/4570/1.11
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate
Client sample reference:	263A	264B	266A	267A
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07	2017-07-07
Completion date of test:	2017-08-31	2017-08-31	2017-08-31	2017-08-31
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable

Test Method Used	Analysis	Units				
AMS-AML-303*	Organism Identification	---	Achromobacter denitrificans; Achromobacter xylooxidans	Bacillus amyloliquefaciens; Bacillus subtilis; Bacillus vallismortis	Streptococcus pneumoniae; Streptococcus sanguinis	Moraxella lacunata
---	Confidence Value	%	50.0%; 50.0%	33.3%; 33.3%; 33.3%	48.2%; 51.7%	33.3%

Comment:

Approved signatory:

Philani Nkosi

Quality Microbiologist

-----  
Name in full

-----  
Designation

-----  
Signature

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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# TEST REPORT

AMCL17/25640

Report number: M17/4572



Page 1 of 3

## CLIENT DETAILS:

Client reference / Order number: 1000643698(Bag 7)

Client name: CSIR (Built Enviroment)

Address: P.O Box 395 Pretoria 0001

Fax number:

Telephone number: 012 841 2078 / 012 841 3593

E-mail address: [jnice@csir.co.za](mailto:jnice@csir.co.za)

Report date: 2017-09-04

Sampling date: 2017-07-05

Date samples recieved: 2017-07-05



	Sample	Sample	Sample	Sample	Sample	
Laboratory number:	M17/4572/1.1	M17/4572/1.2	M17/4572/1.3	M17/4572/1.4	M17/4572/1.5	
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate	
Client sample reference:	269A	269B	270A	271A	271B	
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07	2017-07-07	2017-07-07	
Completion date of test:	2017-08-31	2017-08-31	2017-08-31	2017-08-31	2017-08-31	
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable	
Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Pseudomonas fluorescens	Staphylococcus sciuri, Pseudomonas fluorescens	Staphylococcus hominis	Bacillus altitudinis/pumilus
						Paenibacillus apiarius

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

This test report applies only to the samples tested.

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# TEST REPORT

AMCL17/25640

Report number: M17/4572



Page 2 of 3



	Sample	Sample	Sample	Sample	Sample	
Laboratory number:	M17/4572/1.6	M17/4572/1.7	M17/4572/1.8	M17/4572/1.9	M17/4572/1.10	
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate	
Client sample reference:	272A	272B	273A	273B	273C	
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07	2017-07-07	2017-07-07	
Completion date of test:	2017-08-31	2017-08-31	2017-08-31	2017-08-31	2017-08-31	
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable	
Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Acinetobacter Iwoffii	Bacillus altitudinis/pumilus	Pseudomonas fluorescens	Staphylococcus cohnii ssp urealyticus

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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**Aspirata Microbiological & Chemical Laboratory****TEST REPORT**

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AMCL17/25640

Report number: M17/4572



Page 3 of 3



	Sample	Sample	Sample		
Laboratory number:	M17/4572/1.11	M17/4572/1.12	M17/4572/1.13		
Sample type:	Culture plate	Culture plate	Culture plate		
Client sample reference:	273D	274A	274B		
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07		
Completion date of test:	2017-08-31	2017-08-31	2017-08-31		
Condition of sample:	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units			
AMS-AML-303	Organism Identification	---	Bacillus amyloliquefaciens, Bacillus vallismortis, Bacillus subtilis	Pseudomonas putida	Pseudomonas putida

Comment:

Approved signatory:

Philani Nkosi

Quality Microbiologist

Name in full

Designation

Signature

**NOTES:**

Cfu: Colony Forming Units

ND: Not Detected

ND defined as &lt;10Cfu/g/ml or

&lt;1 Cfu/g/ml

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# Aspirata Microbiological & Chemical Laboratory

# TEST REPORT

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Web address: [www.aspirata.co.za](http://www.aspirata.co.za)

Report number: M17/4573



## CLIENT DETAILS:

Client reference / Order number: 1000643698 (Bag 8)

Client name: CSIR (Built Enviroment)

Address: P.O Box 395 Pretoria 0001

Fax number:

Telephone number: 012 841 2078 / 012 841 3593

E-mail address: [jnice@csir.co.za](mailto:jnice@csir.co.za)

Report date: 2017-09-04

Sampling date: 2017-07-05

Date samples recieved: 2017-07-05



		Sample			
Laboratory number:	M17/4573/1.1				
Sample type:	Culture plate				
Client sample reference:	275A				
Commencement date of test:	2017-07-07				
Completion date of test:	2017-08-31				
Condition of sample:	Acceptable				
Test Method Used	Analysis	Units			
AMS-AML-303	Organism Identification	---	Acinetobacter lwoffii		

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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# TEST REPORT

Report number: M17/4573



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## Sample

Laboratory number:	M17/4573/1.2				
Sample type:	Culture plate				
Client sample reference:	275B				
Commencement date of test:	2017-07-07				
Completion date of test:	2017-08-31				
Condition of sample:	Acceptable				

Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Staphylococcus hominis, Kocuria rosea			

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

This test report applies only to the samples tested.

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# TEST REPORT

Report number: M17/4573



Page 3 of 11



## Sample

Laboratory number:	M17/4573/1.3				
Sample type:	Culture plate				
Client sample reference:	275C				
Commencement date of test:	2017-07-07				
Completion date of test:	2017-08-31				
Condition of sample:	Acceptable				

Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Micrococcus luteus			

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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# TEST REPORT

Report number: M17/4573



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## Sample

Laboratory number:	M17/4573/1.4				
Sample type:	Culture plate				
Client sample reference:	276A				
Commencement date of test:	2017-07-07				
Completion date of test:	2017-08-31				
Condition of sample:	Acceptable				

Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Pseudomonas fluorescens			

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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# TEST REPORT

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Web address: [www.aspirata.co.za](http://www.aspirata.co.za)

Report number: M17/4573



Page 5 of 11



## Sample

Laboratory number:	M17/4573/1.5				
Sample type:	Culture plate				
Client sample reference:	276B				
Commencement date of test:	2017-07-07				
Completion date of test:	2017-08-31				
Condition of sample:	Acceptable				

Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Streptococcus constellatus, Moraxella cuniculi			

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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# Aspirata Microbiological & Chemical Laboratory

# TEST REPORT



Unit 2, Berkley Office Park, 8 Bauhinia Street, Highveld Technopark, CENTURION

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Web address: [www.aspirata.co.za](http://www.aspirata.co.za)

Report number: M17/4573



## Sample

Laboratory number:	M17/4573/1.6				
Sample type:	Culture plate				
Client sample reference:	276C				
Commencement date of test:	2017-07-07				
Completion date of test:	2017-08-31				
Condition of sample:	Acceptable				

Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Acinetobacter lwoffii			

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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# Aspirata Microbiological & Chemical Laboratory

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# TEST REPORT

Report number: M17/4573



Page 7 of 11



## Sample

Laboratory number:	M17/4573/1.7				
Sample type:	Culture plate				
Client sample reference:	277A				
Commencement date of test:	2017-07-07				
Completion date of test:	2017-08-31				
Condition of sample:	Acceptable				

Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Staphylococcus cohnii ssp urealyticus			

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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# TEST REPORT

Report number: M17/4573



Page 8 of 11



## Sample

Laboratory number:	M17/4573/1.8				
Sample type:	Culture plate				
Client sample reference:	277B				
Commencement date of test:	2017-07-07				
Completion date of test:	2017-08-31				
Condition of sample:	Acceptable				

Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Micrococcus luteus			

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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Report number: M17/4573



Page 9 of 11



## Sample

Laboratory number:	M17/4573/1.9				
Sample type:	Culture plate				
Client sample reference:	278A				
Commencement date of test:	2017-07-07				
Completion date of test:	2017-08-31				
Condition of sample:	Acceptable				

Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Streptococcus parasanguinis, Pseudomonas putida			

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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# Aspirata Microbiological & Chemical Laboratory

# TEST REPORT

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Web address: [www.aspirata.co.za](http://www.aspirata.co.za)

Report number: M17/4573



## Sample

Laboratory number:	M17/4573/1.10				
Sample type:	Culture plate				
Client sample reference:	279A				
Commencement date of test:	2017-07-07				
Completion date of test:	2017-08-31				
Condition of sample:	Acceptable				

Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Pseudomonas fluorescens			

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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# Aspirata Microbiological & Chemical Laboratory

# TEST REPORT

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Web address: [www.aspirata.co.za](http://www.aspirata.co.za)



Report number: M17/4573



## Sample

Laboratory number:	M17/4573/1.11				
Sample type:	Culture plate				
Client sample reference:	279B				
Commencement date of test:	2017-07-07				
Completion date of test:	2017-08-31				
Condition of sample:	Acceptable				

Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Bacillus cereus, Pseudomonas fluorescens, Bacillus megaterium			

Comment:

Approved signatory:

Philani Nkosi

Quality Microbiologist

-----  
Name in full

-----  
Designation

-----  
Signature

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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Web address: [www.aspirata.co.za](http://www.aspirata.co.za)

## TEST REPORT

AMCL17/25640

Report number:

**M17/4575**



### CLIENT DETAILS:

Client reference / Order number: 1000643698 (Bag 9)  
 Client name: CSIR (Built Environment)  
 Address: P.O Box 395 Pretoria 0001  
 Fax number:  
 Telephone number: 012 841 2078 / 012 841 3593  
 E-mail address: [jnice@csir.co.za](mailto:jnice@csir.co.za)

Report date: 2017-09-12  
 Sampling date: 2017-07-05  
 Date samples received: 2017-07-05



	Sample	Sample	Sample
Laboratory number:	M17/4575/1.1	M17/4575/1.2	M17/4575/1.3
Sample type:	Culture plate	Culture plate	Culture plate
Client sample reference:	280A	280B	280C
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07
Completion date of test:	2017-08-31	2017-08-31	2017-08-31
Condition of sample:	Acceptable	Acceptable	Acceptable
Test Method Used	Analysis	Units	
AMS-AML-303	Organism Identification	---	Streptococcus pneumoniae Staphylococcus cohnii ssp urealyticus Enterococcus hirae; Bacillus atrophaeus

### NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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## TEST REPORT

AMCL17/25640

Report number:

**M17/4575**



	Sample	Sample	Sample
Laboratory number:	M17/4575/1.4	M17/4575/1.5	M17/4575/1.6
Sample type:	Culture plate	Culture plate	Culture plate
Client sample reference:	280D	281A	281B
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07
Completion date of test:	2017-08-31	2017-08-31	2017-08-31
Condition of sample:	Acceptable	Acceptable	Acceptable

Test Method Used	Analysis	Units			
AMS-AML-303	Organism Identification	---	Spot/Organism Failed	Bacillus cereus group	Lysinibacillus fusiformis

### NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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## TEST REPORT

AMCL17/25640

Report number:

M17/4575



	Sample	Sample	Sample
Laboratory number:	M17/4575/1.7	M17/4575/1.8	M17/4575/1.9
Sample type:	Culture plate	Culture plate	Culture plate
Client sample reference:	281C	282A	282B
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07
Completion date of test:	2017-08-31	2017-08-31	2017-08-31
Condition of sample:	Acceptable	Acceptable	Acceptable

Test Method Used	Analysis	Units			
AMS-AML-303	Organism Identification	---	Lysinibacillus fusiformis; Brevundimonas diminuta	Pseudomonas fluorescens	Staphylococcus aureus

### NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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## TEST REPORT

AMCL17/25640

Report number:

M17/4575



	Sample	Sample	Sample
Laboratory number:	M17/4575/1.10	M17/4575/1.12	M17/4575/1.13
Sample type:	Culture plate	Culture plate	Culture plate
Client sample reference:	282C	283B	284A
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07
Completion date of test:	2017-08-31	2017-08-31	2017-08-31
Condition of sample:	Acceptable	Acceptable	Acceptable

Test Method Used	Analysis	Units			
AMS-AML-303	Organism Identification	---	Staphylococcus sciuri	Brevibacterium luteolum	Aerococcus viridans

### NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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## TEST REPORT

AMCL17/25640

Report number:

M17/4575



	Sample	Sample	
Laboratory number:	M17/4575/1.11	M17/4575/1.14	
Sample type:	Culture plate	Culture plate	
Client sample reference:	283A	284B	
Commencement date of test:	2017-07-07	2017-07-07	
Completion date of test:	2017-08-31	2017-08-31	
Condition of sample:	Acceptable	Acceptable	

Test Method Used	Analysis	Units			
AMS-AML-303*	Organism Identification	---	Streptococcus vestibularis; Streptococcus salivarius ssp salivarius; Streptococcus salivarius ssp thermophilus; Streptococcus agalactiae	Bacillus cereus group	
---	Confidence Value	%	33.3%; 33.3%; 33.3%; 85.1%	85.8%	

Comment:

Approved signatory:

Philani Nkosi

Quality Microbiologist

-----  
Name in full

-----  
Designation

-----  
Signature

### NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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--End of Document--

# Aspirata Microbiological & Chemical Laboratory

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# TEST REPORT

AMCL17/25640  
 Report number: M17/4576



Page 1 of 3

## CLIENT DETAILS:

Client reference / Order number: 1000643698 (Bag 10)  
 Client name: CSIR (Built Enviroment)  
 Address: P.O Box 395 Pretoria 0001  
 Fax number:  
 Telephone number: 012 841 2078 / 012 841 3593  
 E-mail address: [jnice@csir.co.za](mailto:jnice@csir.co.za)

Report date: 2017-09-12

Sampling date: 2017-07-05

Date samples recieved: 2017-07-07

	Sample	Sample	Sample	Sample	Sample
Laboratory number:	M17/4576/1.1	M17/4576/1.2	M17/4576/1.3	M17/4576/1.4	M17/4576/1.5
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate
Client sample reference:	285A	285B	286A	286B	287A
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07	2017-07-07	2017-07-07
Completion date of test:	2017-08-31	2017-08-31	2017-08-31	2017-08-31	2017-08-31
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable



Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Spot/Organism Failed	Staphylococcus haemolyticus	Pseudomonas stutzeri	Staphylococcus cohnii ssp cohnii	Bacillus cereus group

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as &lt;10Cfu/g/ml or

&lt;1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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# TEST REPORT

AMCL17/25640

Report number: M17/4576



Page 2 of 3



	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/4576/1.6	M17/4576/1.7	M17/4576/1.8	M17/4576/1.9	M17/4576/1.10		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	287B	288A	289A	289B	290A		
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07	2017-07-07	2017-07-07		
Completion date of test:	2017-08-31	2017-08-31	2017-08-31	2017-08-31	2017-08-31		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Spot/Organism Failed	Spot/Organism Failed	Spot/Organism Failed	Spot/Organism Failed	Spot/Organism Failed

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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# TEST REPORT

AMCL17/25640

Report number: M17/4576



Page 3 of 3



	Sample	Sample	Sample		
Laboratory number:	M17/4576/1.11	M17/4576/1.12	M17/4576/1.13		
Sample type:	Culture plate	Culture plate	Culture plate		
Client sample reference:	290B	290C	291B		
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07		
Completion date of test:	2017-08-31	2017-08-31	2017-08-31		
Condition of sample:	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units			
AMS-AML-303	Organism Identification	---	Staphylococcus lentus	Spot/Organism Failed	Pseudomonas fluorescens

Comment:

Approved signatory:

Philani Nkosi

Quality Microbiologist

-----  
Name in full

-----  
Designation

-----  
Signature

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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# TEST REPORT

AMCL17/25640

Report number: M17/4577



Page 1 of 5

## CLIENT DETAILS:

Client reference / Order number: 100643698 (Bag 11)

Client name: CSIR (Built Enviroment)

Address: P.O Box 395 Pretoria 0001

Fax number:

Telephone number: 012 841 2078 / 012 841 3593

E-mail address: [jnice@csir.co.za](mailto:jnice@csir.co.za)

Report date: 2017-09-12

Sampling date: 2017-07-05

Date samples recieved: 2017-07-07



	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/4577/1.1	M17/4577/1.2	M17/4577/1.3	M17/4577/1.4	M17/4577/1.7		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	292A	292B	292C	293A	296A		
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07	2017-07-07	2017-07-07		
Completion date of test:	2017-08-31	2017-08-31	2017-08-31	2017-08-31	2017-08-31		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Spot/Organism failed	Spot/Organism failed	Spot/Organism failed	Lactococcus lactis	Staphylococcus epidermidis

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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Web address: [www.aspirata.co.za](http://www.aspirata.co.za)

# TEST REPORT

AMCL17/25640

Report number: M17/4577



Page 2 of 5



	Sample	Sample	Sample	Sample	Sample
Laboratory number:	M17/4577/1.8	M17/4577/1.9	M17/4577/1.10	M17/4577/1.11	M17/4577/1.12
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate
Client sample reference:	296B	296C	296D	297A	297B
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07	2017-07-07	2017-07-07
Completion date of test:	2017-08-31	2017-08-31	2017-08-31	2017-08-31	2017-08-31
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable

Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Spot/Organism failed	Bacillus altitudinis/pumilus	Bacillus altitudinis/pumilus	Spot/Organism failed Spot/Organism failed

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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# TEST REPORT

AMCL17/25640

Report number: M17/4577



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## Sample

Laboratory number:	M17/4577/1.13				
Sample type:	Culture plate				
Client sample reference:	297C				
Commencement date of test:	2017-07-07				
Completion date of test:	2017-08-31				
Condition of sample:	Acceptable				

Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Spot/Organism failed			

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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# TEST REPORT

AMCL17/25640

Report number: M17/4577



## Sample

Laboratory number:	M17/4577/1.5				
Sample type:	Culture plate				
Client sample reference:	293B				
Commencement date of test:	2017-07-07				
Completion date of test:	2017-08-31				
Condition of sample:	Acceptable				

Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Leclercia adecarboxylata			
AMS-AML-303*	Organism Identification	---	34.6%; 31.9%; 33.4;			
---	Confidence Value	%	Enterococcus gallinarum; Streptococcus pneumoniae; Clostridium difficile			

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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# TEST REPORT

AMCL17/25640

Report number: M17/4577



Page 5 of 5



Test Method Used	Analysis	Units	Sample	Sample		
	Laboratory number:		M17/4577/1.6	M17/4577/1.14		
	Sample type:		Culture plate	Culture plate		
	Client sample reference:		295A	297D		
	Commencement date of test:		2017-07-07	2017-07-07		
	Completion date of test:		2017-08-31	2017-08-31		
	Condition of sample:		Acceptable	Acceptable		
AMS-AML-303*	Organism Identification	---	49.2%	50.0%; 50.0%		
---	Confidence Value	%	Serratia marcescens	Serratia liquefaciens; Serratia grimesii		

Comment:

Approved signatory:

Philani Nkosi

Quality Microbiologist

-----  
Name in full

-----  
Designation

-----  
Signature

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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# TEST REPORT

AMCL17/25640  
 Report number: M17/4578



Page 1 of 2

## CLIENT DETAILS:

Client reference / Order number: 1000643698 (Bag 12)  
 Client name: CSIR (Built Enviroment)  
 Address: P.O Box 395 Pretoria 0001  
 Fax number:  
 Telephone number: 012 841 2078 / 012 841 3593  
 E-mail address: [jnice@csir.co.za](mailto:jnice@csir.co.za)

Report date: 2017-09-12

Sampling date: 2017-07-05

Date samples recieved: 2017-07-07



	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/4578/1.1	M17/4578/1.2	M17/4578/1.3	M17/4578/1.4	M17/4578/1.5		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	298A	298B	298C	299A	299B		
Commencement date of test:	2017-07-07	2017-07-07	2017-07-07	2017-07-07	2017-07-07		
Completion date of test:	2017-08-31	2017-08-31	2017-08-31	2017-08-31	2017-08-31		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Pseudomonas putida	Pseudomonas stutzeri	Pseudomonas stutzeri	Spot /organism failed	Bacillus cereus group

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as &lt;10Cfu/g/ml or

&lt;1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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# TEST REPORT

AMCL17/25640

Report number: M17/4578



Page 2 of 2



## Sample

Laboratory number:	M17/4578/1.6				
Sample type:	Culture plate				
Client sample reference:	299C				
Commencement date of test:	2017-07-07				
Completion date of test:	2017-08-31				
Condition of sample:	Acceptable				
Test Method Used	Analysis	Units			
AMS-AML-303	Organism Identification	---	Enterococcus faecium		

Comment:

Approved signatory:

Philani Nkosi

Quality Microbiologist

-----  
Name in full

-----  
Designation

-----  
Signature

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

ND defined as <100 cfu/ml/g for these tests [B.cereus; P.aeruginosa; Campylobacter spp; S.aureus; Listeria spp and mono enumeration]

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# TEST REPORT

AMCL17/25640

Report number: M17/4579



Page 1 of 3

## CLIENT DETAILS:

Client reference / Order number: 05/07/17 (Bag 13)

Client name: CSIR (Built Enviroment)

Address: P.O Box 395 Pretoria 0001

Fax number:

Telephone number: 012 841 2078 / 012 841 3593

E-mail address: [jnice@csir.co.za](mailto:jnice@csir.co.za)

Report date: 2017-09-04

Sampling date: 2017-07-05

Date samples recieved: 2017-07-05

	Sample	Sample	Sample	Sample	Sample	
Laboratory number:	M17/4579/1.1	M17/4579/1.2	M17/4579/1.3	M17/4579/1.4	M17/4579/1.5	
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate	
Client sample reference:	237A	237B	27 A	25 A	29 A	
Commencement date of test:	2017-07-05	2017-07-05	2017-07-05	2017-07-05	2017-07-05	
Completion date of test:	2017-08-31	2017-08-31	2017-08-31	2017-08-31	2017-08-31	
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable	
Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Pseudomonas putida	Pseudomonas fluorescens	Staphylococcus epidermidis	Pseudomonas fluorescens



## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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# TEST REPORT

AMCL17/25640

Report number: M17/4579



	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/4579/1.6	M17/4579/1.7	M17/4579/1.8	M17/4579/1.9	M17/4579/1.10		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	230A	230B	233A	233B	294A		
Commencement date of test:	2017-07-05	2017-07-05	2017-07-05	2017-07-05	2017-07-05		
Completion date of test:	2017-08-31	2017-08-31	2017-08-31	2017-08-31	2017-08-31		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Delftia acidovorans	Pantoea agglomerans	Pseudomonas fluorescens	Pseudomonas putida ; Staphilococcus capitis	Pseudomonas putida

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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# TEST REPORT

AMCL17/25640

Report number: M17/4579



Page 3 of 3



Test Method Used	Analysis	Units	Sample	Sample			
	Laboratory number:		M17/4579/1.11	M17/4579/1.12			
	Sample type:		Culture plate	Culture plate			
	Client sample reference:		296A	235A			
	Commencement date of test:		2017-07-05	2017-07-05			
	Completion date of test:		2017-08-31	2017-08-31			
	Condition of sample:		Acceptable	Acceptable			
AMS-AML-303	Organism Identification	---	Pseudomonas fluorescens	Pseudomonas fluorescens			

Comment:

Approved signatory:

Philani Nkosi

Quality Microbiologist

-----  
Name in full

-----  
Designation

-----  
Signature

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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# TEST REPORT

AMCL17/24690

Report number: M17/1177



## CLIENT DETAILS:

Client reference / Order number: 1000624089  
 Client name: CSIR (Built Enviroment)  
 Address: P.O Box 395 Pretoria 0001  
 Fax number:  
 Telephone number: 012 841 2078 / 012 841 3593  
 E-mail address: [jnice@csir.co.za](mailto:jnice@csir.co.za)

Report date: 2017-04-06

Sampling date: 2017-02-20

Date samples recieved: 2017-02-20



	Sample	Sample	Sample	Sample	Sample	
Laboratory number:	M17/1177/1.1	M17/1177/1.2	M17/1177/1.3	M17/1177/1.4	M17/1177/1.5	
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate	
Client sample reference:	1A	1B	2A	2B	2C	
Commencement date of test:	2017-02-21	2017-02-21	2017-02-21	2017-02-21	2017-02-21	
Completion date of test:	2017-03-24	2017-03-24	2017-03-24	2017-03-24	2017-03-24	
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable	
Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Paenibacillus glucanolyticus 99.9%	Bacillus altitudinis/pumilus 99.9%	Kocuria rhizophila 99.9%	Failed/ Spot Red Pseudomonas stutzeri 99.9%

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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# TEST REPORT

AMCL17/24690

Report number: M17/1177



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	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1177/1.6	M17/1177/1.7	M17/1177/1.8	M17/1177/1.9	M17/1177/1.10		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	2D	3A	3B	4A	4B		
Commencement date of test:	2017-02-21	2017-02-21	2017-02-21	2017-02-21	2017-02-21		
Completion date of test:	2017-03-24	2017-03-24	2017-03-24	2017-03-24	2017-03-24		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Micrococcus luteus 99.9%	Bacillus cereus group 99.9%	Achromobacter xylosoxidans 50.0	Bacillus simplex 99.9%	Bacillus subtilis 33.3%

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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# TEST REPORT

AMCL17/24690

Report number: M17/1177



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	Sample	Sample	Sample	Sample	Sample
Laboratory number:	M17/1177/1.11	M17/1177/1.12	M17/1177/1.13	M17/1177/1.14	M17/1177/1.15
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate
Client sample reference:	4C	4D	5A	5B	5C
Commencement date of test:	2017-02-21	2017-02-21	2017-02-21	2017-02-21	2017-02-21
Completion date of test:	2017-03-24	2017-03-24	2017-03-24	2017-03-24	2017-03-24
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable

Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Cariobacterium hominis 99.9%	Bacillus licheniformis 99.9%	Pseudomonas fluorescens 99.6%	Brevundimonas diminuta 99.9%	Clostrium butyricum 99.9%

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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# TEST REPORT

AMCL17/24690

Report number: M17/1177



	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1177/1.16	M17/1177/1.17	M17/1177/1.18	M17/1177/1.19	M17/1177/1.20		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	6A	7A	7B	7C	8A		
Commencement date of test:	2017-02-21	2017-02-21	2017-02-21	2017-02-21	2017-02-21		
Completion date of test:	2017-03-24	2017-03-24	2017-03-24	2017-03-24	2017-03-24		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Bacillus cereus group 99.9%	Cardiobacterium hominis 99.9%	Bacillus simplex 99.9%	Staphylococcus capitis 99.9%	Staphylococcus sciuri 99.9%

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

This test report applies only to the samples tested.

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# TEST REPORT

AMCL17/24690

Report number: M17/1177



	Sample	Sample	Sample	Sample	Sample	
Laboratory number:	M17/1177/1.21	M17/1177/1.22	M17/1177/1.23	M17/1177/1.24	M17/1177/1.25	
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate	
Client sample reference:	8B	8C	8D	9A	9B	
Commencement date of test:	2017-02-21	2017-02-21	2017-02-21	2017-02-21	2017-02-21	
Completion date of test:	2017-03-24	2017-03-24	2017-03-24	2017-03-24	2017-03-24	
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable	
Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Bacillus licheniformis 99.9%	Pseudomonas stutzeri 99.8%	Failed/ Spot Red Pseudomonas stutzeri 99.9%	Pseudomonas fluorescens 99.6%

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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# TEST REPORT

AMCL17/24690

Report number: M17/1177



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	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1177/1.26	M17/1177/1.27	M17/1177/1.28	M17/1177/1.29	M17/1177/1.30		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	9C	9D	10A	10B	10C		
Commencement date of test:	2017-02-21	2017-02-21	2017-02-21	2017-02-21	2017-02-21		
Completion date of test:	2017-03-24	2017-03-24	2017-03-24	2017-03-24	2017-03-24		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Cryptococcus uniguttulatus (Fungi) 99.9%	Micrococcus luteus 99.9%	Lysinibacillus sphaericus 50.0%	Bacillus subtilis 33.3%	Pseudomonas stutzeri 99.9%

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

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# TEST REPORT

AMCL17/24690

Report number: M17/1177



	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1177/1.31	M17/1177/1.32	M17/1177/1.33	M17/1177/1.34	M17/1177/1.35		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	10D	11A	11B	11C	12A		
Commencement date of test:	2017-02-21	2017-02-21	2017-02-21	2017-02-21	2017-02-21		
Completion date of test:	2017-03-24	2017-03-24	2017-03-24	2017-03-24	2017-03-24		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Bacillus sporothermodurans 99.9%	Psychrobacter phenylpyruvicus 99.9%	Psychrobacter phenylpyruvicus 99.9%	Candida dubliniensis 99.9%;Pseudomonas stutzeri 99.9%	Achromobacter xylosoxidans 50.0%

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

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# TEST REPORT

AMCL17/24690

Report number: M17/1177



	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1177/1.36	M17/1177/1.37	M17/1177/1.38	M17/1177/1.39	M17/1177/1.40		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	12B	13A	13B	13C	14A		
Commencement date of test:	2017-02-21	2017-02-21	2017-02-21	2017-02-21	2017-02-21		
Completion date of test:	2017-03-24	2017-03-24	2017-03-24	2017-03-24	2017-03-24		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Pseudomonas fluorescens 99.7%	Bacillus cereus group 99.9%	Achromobacter denitricans 50.0%	Bordetella trematum 99.9%	Providencia rettgeri 99.9%

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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# TEST REPORT

AMCL17/24690

Report number: M17/1177



	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1177/1.41	M17/1177/1.42	M17/1177/1.43	M17/1177/1.44	M17/1177/1.45		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	15A	16A	16B	17A	18A		
Commencement date of test:	2017-02-21	2017-02-21	2017-02-21	2017-02-21	2017-02-21		
Completion date of test:	2017-03-24	2017-03-24	2017-03-24	2017-03-24	2017-03-24		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Proteus penneri 50.0%	Proteus penneri 50.0%	Pantoea agglomerans 99.9%	Providencia rettgeri 99.9%	Pseudomonas fluorescens 99.9%

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

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# TEST REPORT

AMCL17/24690

Report number: M17/1177



	Sample	Sample	Sample	Sample	Sample
Laboratory number:	M17/1177/1.46	M17/1177/1.47	M17/1177/1.48	M17/1177/1.49	M17/1177/1.50
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate
Client sample reference:	19A	19B	19C	19D	19E
Commencement date of test:	2017-02-21	2017-02-21	2017-02-21	2017-02-21	2017-02-21
Completion date of test:	2017-03-24	2017-03-24	2017-03-24	2017-03-24	2017-03-24
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable

Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Psychrobacter phenylpyruvicus 99.9%	Kocuria rosea 99.9%	Pseudomonas fluorescens 99.9%	Proteus penneri 50.0%	Kocuria rosea 38.8%

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

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# TEST REPORT

AMCL17/24690

Report number: M17/1177



	Sample	Sample	Sample	Sample	Sample
Laboratory number:	M17/1177/1.51	M17/1177/1.52	M17/1177/1.53	M17/1177/1.54	M17/1177/1.55
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate
Client sample reference:	20A	20B	20C	20D	20E
Commencement date of test:	2017-02-21	2017-02-21	2017-02-21	2017-02-21	2017-02-21
Completion date of test:	2017-03-24	2017-03-24	2017-03-24	2017-03-24	2017-03-24
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable

Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Proteus vulgaris 50.0%	Proteus vulgaris 50.0%	Failed/ Spot Red	Staphylococcus haemolyticus 99.9%	Failed/ Spot Red

## NOTES:

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# TEST REPORT

AMCL17/24690

Report number: M17/1177



	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1177/1.56	M17/1177/1.57	M17/1177/1.58	M17/1177/1.59	M17/1177/1.60		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	21A	21B	22A	22B	22C		
Commencement date of test:	2017-02-21	2017-02-21	2017-02-21	2017-02-21	2017-02-21		
Completion date of test:	2017-03-24	2017-03-24	2017-03-24	2017-03-24	2017-03-24		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Failed/ Spot Red	Bacillus cereus group 99.9%	Acinetobacter Iwoffii 99.2%	Providencia rettgeri 99.9%	Enterobacter ludwigii 99.8%

## NOTES:

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# TEST REPORT

AMCL17/24690

Report number: M17/1177



	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1177/1.61	M17/1177/1.62	M17/1177/1.63	M17/1177/1.64	M17/1177/1.65		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	23A	23B	23C	23D	23E		
Commencement date of test:	2017-02-21	2017-02-21	2017-02-21	2017-02-21	2017-02-21		
Completion date of test:	2017-03-24	2017-03-24	2017-03-24	2017-03-24	2017-03-24		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Psychrobacter phenylpyruvicus 99.9%	Pseudomonas stutzeri 99.9%	Acinetobacter lwoffii 99.9%	Psychrobacter phenylpyruvicus 99.9%	Aspergillus terreus complex 66.7%; Pseudomonas chlororaphis 99.9%

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Report number: M17/1177



	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1177/1.66	M17/1177/1.67	M17/1177/1.68	M17/1177/1.69	M17/1177/1.70		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	24A	30A	31A	32A	32B		
Commencement date of test:	2017-02-21	2017-02-21	2017-02-21	2017-02-21	2017-02-21		
Completion date of test:	2017-03-24	2017-03-24	2017-03-24	2017-03-24	2017-03-24		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Myroides spp 99.9%	Myroides spp 33.6%	Proteus vulgaris 50.0%; Proteus penneri 50.0%; Providencia rettgeri 99.9%	Achromobacter xylosoxidans 50.0%	Proteus penneri 50.0%

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# TEST REPORT

AMCL17/24690

Report number: M17/1177



	Sample	Sample	Sample	Sample	Sample	
Laboratory number:	M17/1177/1.71	M17/1177/1.72	M17/1177/1.73	M17/1177/1.74	M17/1177/1.75	
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate	
Client sample reference:	32C	32D	32E	33A	33B	
Commencement date of test:	2017-02-21	2017-02-21	2017-02-21	2017-02-21	2017-02-21	
Completion date of test:	2017-03-24	2017-03-24	2017-03-24	2017-03-24	2017-03-24	
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable	
Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Proteus vulgaris 50.0%	Providencia rettgeri 33.3%	Proteus penneri 50.0%	Failed/ Spot Red Acinetobacter Iwoffiii 97.3%

## NOTES:

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# TEST REPORT

AMCL17/24690

Report number: M17/1177



	Sample	Sample	Sample	Sample	Sample	
Laboratory number:	M17/1177/1.76	M17/1177/1.77	M17/1177/1.78	M17/1177/1.79	M17/1177/1.80	
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate	
Client sample reference:	33C	34A	34B	34C	34D	
Commencement date of test:	2017-02-21	2017-02-21	2017-02-21	2017-02-21	2017-02-21	
Completion date of test:	2017-03-24	2017-03-24	2017-03-24	2017-03-24	2017-03-24	
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable	
Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Pseudomonas stutzeri 99.9%; Bacillus cereus group 98.8%	Brevundimonas diminuta 99.9%	Pseudomonas stutzeri 50.0%	Bacillus cereus group 99.9%
						Failed/ Spot Red

## NOTES:

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ND: Not Detected

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# TEST REPORT

AMCL17/24690

Report number: M17/1177



	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1177/1.81	M17/1177/1.82	M17/1177/1.83	M17/1177/1.84	M17/1177/1.85		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	35A	36A	36B	36C	36D		
Commencement date of test:	2017-02-21	2017-02-21	2017-02-21	2017-02-21	2017-02-21		
Completion date of test:	2017-03-24	2017-03-24	2017-03-24	2017-03-24	2017-03-24		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Failed/ Spot Red	Psychrobacter phenylpyruvicus 50.0%	Acinetobacter radioresistens 99.9%; Bacillus altitudinis/pumilus 99.9%	Failed/ Spot Red	Bacillus altitudinis/pumilus 99.9%

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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# TEST REPORT

AMCL17/24690

Report number: M17/1177



	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1177/1.86	M17/1177/1.87	M17/1177/1.88	M17/1177/1.89	M17/1177/1.90		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	37A	37B	37C	38A	38B		
Commencement date of test:	2017-02-21	2017-02-21	2017-02-21	2017-02-21	2017-02-21		
Completion date of test:	2017-03-24	2017-03-24	2017-03-24	2017-03-24	2017-03-24		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Failed/ Spot Red	Cellulosimicrobium cellulans 99.9%	Acinetobacter lwoffii 99.9%	Pseudomonas stutzeri 99.9%	Brevundimonas diminuta 99.9%

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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# Aspirata Microbiological & Chemical Laboratory

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Web address: [www.aspirata.co.za](http://www.aspirata.co.za)

# TEST REPORT

AMCL17/24690

Report number: M17/1177



	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1177/1.91	M17/1177/1.92	M17/1177/1.93	M17/1177/1.94	M17/1177/1.95		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	38C	38D	38E	39A	39B		
Commencement date of test:	2017-02-21	2017-02-21	2017-02-21	2017-02-21	2017-02-21		
Completion date of test:	2017-03-24	2017-03-24	2017-03-24	2017-03-24	2017-03-24		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Acinetobacter lwoffii 99.9%	Bacillus cerues group 99.9%	Achromobacter denitrificans 50.0%; Bacillus cerues group 99.9%	Acinetobacter lwoffii 88.0%	Acinetobacter lwoffii 99.9%

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

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# TEST REPORT

AMCL17/24690

Report number: M17/1177



	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1177/1.96	M17/1177/1.97	M17/1177/1.98	M17/1177/1.99	M17/1177/1.100		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	39C	40A	40B	41A	41B		
Commencement date of test:	2017-02-21	2017-02-21	2017-02-21	2017-02-21	2017-02-21		
Completion date of test:	2017-03-24	2017-03-24	2017-03-24	2017-03-24	2017-03-24		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Acinetobacter lwoffii99.9%	Failed/ Spot Red	Rhodococcus erythropolis 99.9%	Psychrobacter phenylpyruvicus 99.9%	Eubacterium limosum 99.9%

## NOTES:

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# TEST REPORT

AMCL17/24690

Report number: M17/1177



	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1177/1.101	M17/1177/1.102	M17/1177/1.103	M17/1177/1.104		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	42A	42B	42C	42D		
Commencement date of test:	2017-02-21	2017-02-21	2017-02-21	2017-02-21		
Completion date of test:	2017-03-24	2017-03-24	2017-03-24	2017-03-24		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Pseudomonas chlororaphis 50.0%	Bacillus cereus group 99.9%	Pseudomonas fluorescens 99.9%	Escherichia coli 99.9%

Comment:

Note: Cultures that failed identification are reported as failed as agreed with the client.

Approved signatory:

Philani Nkosi

Quality Microbiologist

-----  
Name in full

-----  
Designation

-----  
Signature

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

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# TEST REPORT

Report number: M17/1320



## CLIENT DETAILS:

Client reference / Order number: 1000624089  
 Client name: CSIR (Built Enviroment)  
 Address: P.O Box 395 Pretoria 0001  
 Fax number:  
 Telephone number: 012 841 2078 / 012 841 3593  
 E-mail address: [jnice@csir.co.za](mailto:jnice@csir.co.za)

Report date: 2017-04-06

Sampling date: 2017-02-27

Date samples recieved: 2017-02-27

	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1320/1.1	M17/1320/1.2	M17/1320/1.3	M17/1320/1.4	M17/1320/1.5		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	43A	43B	44A	44B	45A		
Commencement date of test:	2017-02-28	2017-02-28	2017-02-28	2017-02-28	2017-02-28		
Completion date of test:	2017-03-28	2017-03-28	2017-03-28	2017-03-28	2017-03-28		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Proteus penneri 50.0%	Proteus vulgaris 50.0%	Providencia rettgeri 99.9%	Proteus penneri 50.0%	Bacillus cereus group 62.5%



## NOTES:

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# TEST REPORT

Report number: M17/1320



	Sample	Sample	Sample	Sample	Sample
Laboratory number:	M17/1320/1.6	M17/1320/1.7	M17/1320/1.8	M17/1320/1.9	M17/1320/1.10
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate
Client sample reference:	45B	46A	46B	46C	47A
Commencement date of test:	2017-02-28	2017-02-28	2017-02-28	2017-02-28	2017-02-28
Completion date of test:	2017-03-28	2017-03-28	2017-03-28	2017-03-28	2017-03-28
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable

Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Myroides sp 99.9%	Acinetobacter lwoffii 99.9%	Bacillus subtilis 33.3%	Acinetobacter lwoffii 99.9%	Myroides sp 99.9%

## NOTES:

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# TEST REPORT

Report number: M17/1320



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	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1320/1.11	M17/1320/1.12	M17/1320/1.13	M17/1320/1.14	M17/1320/1.15		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	47B	48A	48B	49A	50A		
Commencement date of test:	2017-02-28	2017-02-28	2017-02-28	2017-02-28	2017-02-28		
Completion date of test:	2017-03-28	2017-03-28	2017-03-28	2017-03-28	2017-03-28		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Alcaligenes faecalis ssp faecalis 99.9%	Myroides sp 99.9%	Alcaligenes faecalis ssp faecalis 99.9%	Bacillus cereus group 99.9%	Proteus vulgaris 50.0%

## NOTES:

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# TEST REPORT

Report number: M17/1320



	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1320/1.16	M17/1320/1.17	M17/1320/1.18	M17/1320/1.19	M17/1320/1.20		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	50B	50C	51A	52A	52B		
Commencement date of test:	2017-02-28	2017-02-28	2017-02-28	2017-02-28	2017-02-28		
Completion date of test:	2017-03-28	2017-03-28	2017-03-28	2017-03-28	2017-03-28		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Alcaligenes faecalis ssp faecalis 99.9%	Alcaligenes faecalis ssp faecalis 33.3%; Proteus vulgaris 50.0%	Proteus vulgaris 50.0%	Proteus penneri 50.0%	Proteus vulgaris 50.0%

## NOTES:

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# TEST REPORT

Report number: M17/1320



Page 5 of 12



	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1320/1.21	M17/1320/1.22	M17/1320/1.23	M17/1320/1.24	M17/1320/1.25		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	53A	53B	53C	54A	54B		
Commencement date of test:	2017-02-28	2017-02-28	2017-02-28	2017-02-28	2017-02-28		
Completion date of test:	2017-03-28	2017-03-28	2017-03-28	2017-03-28	2017-03-28		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Proteus penneri 33.30%	Pseudomonas viridiflava 99.9%	Myroides spp 99.9%	Pseudomonas fluorescens 99.6%	Pseudomonas fluorescens 99.9%

## NOTES:

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# TEST REPORT

Report number: M17/1320



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	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1320/1.26	M17/1320/1.27	M17/1320/1.28	M17/1320/1.29	M17/1320/1.30		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	54C	55A	55B	55C	56A		
Commencement date of test:	2017-02-28	2017-02-28	2017-02-28	2017-02-28	2017-02-28		
Completion date of test:	2017-03-28	2017-03-28	2017-03-28	2017-03-28	2017-03-28		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Pseudomonas fluorescens 99.9%	Bacillus cereus group 99.9%	Pseudomonas stutzeri 99.9%	Nocardia cyriacigeorgica 72.2%	Pseudomonas stutzeri 99.9%

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# TEST REPORT

Report number: M17/1320



	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1320/1.31	M17/1320/1.32	M17/1320/1.33	M17/1320/1.34	M17/1320/1.35		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	56B	56C	57A	57B	57C		
Commencement date of test:	2017-02-28	2017-02-28	2017-02-28	2017-02-28	2017-02-28		
Completion date of test:	2017-03-28	2017-03-28	2017-03-28	2017-03-28	2017-03-28		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Kytococcus sedentarius 99.9%	Micrococcus luteus 99.9%	Myroides spp99.9%	Myroides spp99.9%	Providencia rettgeri 99.9%

## NOTES:

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ND: Not Detected

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# TEST REPORT

Report number: M17/1320



	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1320/1.36	M17/1320/1.37	M17/1320/1.38	M17/1320/1.39	M17/1320/1.40		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	58A	59A	60A	60B	61A		
Commencement date of test:	2017-02-28	2017-02-28	2017-02-28	2017-02-28	2017-02-28		
Completion date of test:	2017-03-28	2017-03-28	2017-03-28	2017-03-28	2017-03-28		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Alcaligenes faecalis ssp faecalis 99.9%	Alcaligenes faecalis ssp faecalis 99.9%	Proteus vulgaris 50.0%	Proteus vulgaris 50.0%	Bacillus altitudinis/pumilus 99.9%

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

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<1 Cfu/g/ml

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# TEST REPORT

Report number: M17/1320



	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1320/1.41	M17/1320/1.42	M17/1320/1.43	M17/1320/1.44	M17/1320/1.45		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	61B	61C	61D	64A	64B		
Commencement date of test:	2017-02-28	2017-02-28	2017-02-28	2017-02-28	2017-02-28		
Completion date of test:	2017-03-28	2017-03-28	2017-03-28	2017-03-28	2017-03-28		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Acinetobacter Iwoffii 99.9%	Bacillus subtilis 33.3%	Bacillus cereus group 99.8%	Pseudomonas fluorescens 99.9%	Pseudomonas fluorescens 99.9%; Bacillus cereus group 99.9%

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

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# TEST REPORT

Report number: M17/1320



	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1320/1.46	M17/1320/1.47	M17/1320/1.48	M17/1320/1.49		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	64C	66A	66B	67A		
Commencement date of test:	2017-02-28	2017-02-28	2017-02-28	2017-02-28		
Completion date of test:	2017-03-28	2017-03-28	2017-03-28	2017-03-28		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units				
AMS-AML-303	Organism Identification	---	Pseudomonas putida 99.9%	Xanthomonas axonopodis/Campestris/vasicola 99.9%	Pseudomonas fluorescens 99.9%	Pseudomonas viridiflava 99.9%

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# TEST REPORT

Report number: M17/1320



	Sample	Sample	Sample	Sample	Sample		
Laboratory number:	M17/1320/1.50	M17/1320/1.51	M17/1320/1.52	M17/1320/1.53	M17/1320/1.54		
Sample type:	Culture plate	Culture plate	Culture plate	Culture plate	Culture plate		
Client sample reference:	68A	68B	68C	69A	70A		
Commencement date of test:	2017-02-28	2017-02-28	2017-02-28	2017-02-28	2017-02-28		
Completion date of test:	2017-03-28	2017-03-28	2017-03-28	2017-03-28	2017-03-28		
Condition of sample:	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable		
Test Method Used	Analysis	Units					
AMS-AML-303	Organism Identification	---	Pseudomonas fluorescens 99.9%	Bacillus circulans 99.9%	Pseudomonas fluorescens 99.9%	Ralstonia insidiosa 99.9%	Pseudomonas stutzeri 99.9 %

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

This test report applies only to the samples tested.

This test report shall not be produced except in full, without the written approval of the Aspirata Microbiological & Chemical Laboratory.

\* Not SANAS Accredited tests and are not included in the SANAS Schedule of Accreditation for this laboratory

\*\* Opinions and interpretations expressed herein are outside the scope of SANAS Accreditation

# Aspirata Microbiological & Chemical Laboratory

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# TEST REPORT

Report number: M17/1320



Test Method Used	Analysis	Units	Sample	Sample		
	Laboratory number:		M17/1320/1.55	M17/1320/1.56		
	Sample type:		Culture plate	Culture plate		
	Client sample reference:		70B	BLANK		
	Commencement date of test:		2017-02-28	2017-02-28		
	Completion date of test:		2017-03-28	2017-03-28		
	Condition of sample:		Acceptable	Acceptable		
AMS-AML-303	Organism Identification	---	Pseudomonas stutzeri 99.9%	Ralstonia insidiosa 99.9%		

Comment:

Approved signatory:

Philani Nkosi

Quality Microbiologist

-----  
Name in full

-----  
Designation

-----  
Signature

## NOTES:

Cfu: Colony Forming Units

ND: Not Detected

ND defined as <10Cfu/g/ml or

<1 Cfu/g/ml

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