

Bioscreen Faecal Microbial Analysis

Collection Date: 8/07/2013	Receipt Date: 10/07/2013	Process Date: 10/07/2013
		Completed Date: 18/7/2013
Name: Elphinstone, Darren Address: 34 Sutton St Burnie, TAS 7320		Referred by: Barnes, Nicholas
Sample ID: 109818	DOB: 15/08/1968	

Elphinstone, Darren

Total Count	cfu/gm	Hi	Lo	Normal Range	% Distribution	Normal Distribution
Total Bacterial Count	1.74 x 10 ¹⁰			(1.00 x 10 ⁹ - 1.00 x 10 ¹²)		
Aerobe:Anaerobe Ratio	39.51	Hi		(1.0 - 2.0)	(Aerobe count/Anaerobe count)x1000	
Aerobes						
Total Aerobe Count	6.62 x 10 ⁸	Hi		(1.00 x 10 ⁷ - 1.00 x 10 ⁸)		
E.coli coliform	6.24 x 10 ⁸	Hi		(7.00 x 10 ⁶ - 9.00 x 10 ⁷)		
<i>Escherichia coli</i>	6.24 x 10 ⁸	Hi			94.27%	(70-90%)
Non-E.coli coliforms	1.25 x 10 ⁷	Hi		(<5.00 x 10 ⁵)		
<i>Citrobacter freundii</i>	1.25 x 10 ⁷	Hi			1.89%	(<5%)
Enterococcus (Total)	4.99 x 10 ⁵			(<5.00 x 10 ⁵)	0.08%	(<5%)
<i>Enterococcus faecalis</i>	4.99 x 10 ⁵				0.08%	
Streptococcus (Total)	2.50 x 10 ⁷	Hi		(<3.00 x 10 ⁵)	3.77%	(<5%)
<i>Streptococcus salivarius</i>	2.50 x 10 ⁶				0.38%	
<i>Streptococcus parasanguinis</i>	9.98 x 10 ⁶				1.51%	
<i>Streptococcus infantis</i>	1.25 x 10 ⁷				1.89%	
Yeast (Total)	<1.00 x 10 ¹			(<1.00 x 10 ⁴)		

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Anaerobes	cfu/gm	Hi	Lo	Normal Range	% Distribution	Normal Distribution
Total Anaerobe Count	1.67 x 10 ¹⁰			(1.00 x 10 ⁸ - 1.00 x 10 ¹²)		
Bacteroides (Total)	6.24 x 10 ⁹			(5.00 x 10 ⁸ - 9.50 x 10 ¹¹)	37.25%	(90-95%)
<i>Bacteroides uniformis</i>	2.50 x 10 ⁹				14.90%	
<i>Bacteroides ovatus</i>	2.50 x 10 ⁹				14.90%	
<i>Bacteroides vulgatus</i>	1.25 x 10 ⁹				7.45%	
Eubacterium (Total)	8.73 x 10 ⁹	Hi		(<1.00 x 10 ⁹)	52.15%	(<15%)
<i>Collinsella aerofaciens</i>	8.73 x 10 ⁹				52.15%	
Lactobacillus (Total)	2.78 x 10 ⁸	Hi		(5.00 x 10 ⁵ - 1.00 x 10 ⁷)	1.66%	(0.5-1.5%)
<i>Lactobacillus gasseri</i>	1.25 x 10 ⁶				0.01%	
<i>Lactobacillus fermentum</i>	2.50 x 10 ⁶				0.01%	
<i>Lactobacillus vaginalis</i>	2.74 x 10 ⁸				1.64%	
Bifidobacterium (Total)	1.25 x 10 ⁹	Hi		(5.00 x 10 ⁵ - 5.00 x 10 ⁸)	7.45%	(5-11%)
<i>Bifidobacterium longum</i>	1.25 x 10 ⁹				7.45%	
Clostridium (Total)	2.50 x 10 ⁸			(<5.00 x 10 ⁸)	1.49%	(1-10%)
<i>Blautia coccoides</i>	2.50 x 10 ⁸				1.49%	

Detection limits: Aerobes 1 x 10⁴; Yeasts 1 x 10¹; Anaerobes 1 x 10⁸ cfu/mL. Results are reported as less than these figures if not cultured.

* = presumptive identification

Organisms identified by MALDI-TOF MS (Matrix Assisted Laser Desorption/ Ionisation - Time of Flight) Mass Spectrometry.

Reference ranges obtained from Bioscreen data (n=177)

Hi = high; "Lo" = Low; "cfu" = colony forming units (viable count)