

Bioscreen Faecal Microbial Analysis

Collection Date: 7/05/2014	Receipt Date: 8/05/2014	Process Date: 9/05/2014
		Completed Date: 16/5/2014
Name: Bullock, Khia Address: 61 Prince Charles Rd Frenchs Forest, NSW 2086		Referred by: Gajjar, Ameeta
Sample ID: 113508	DOB: 14/03/2004	

Bullock, Khia

Total Count	cfu/gm	Hi	Lo	Normal Range	% Distribution	Normal Distribution
Total Bacterial Count	7.64 x 10 ¹⁰			(1.00 x 10 ⁹ - 1.00 x 10 ¹²)		
Aerobe:Anaerobe Ratio	2.45	Hi		(1.0 - 2.0)	(Aerobe count/Anaerobe count)x1000	
Aerobes						
Total Aerobe Count	1.87 x 10 ⁸	Hi		(1.00 x 10 ⁷ - 1.00 x 10 ⁸)		
E.coli coliform	5.08 x 10 ⁷			(7.00 x 10 ⁶ - 9.00 x 10 ⁷)		
<i>Escherichia coli</i>	5.08 x 10 ⁷				27.21%	(70-90%)
Enterococcus (Total)	1.27 x 10 ⁸	Hi		(<5.00 x 10 ⁵)	68.03%	(<5%)
<i>Enterococcus avium</i>	1.27 x 10 ⁸				68.03%	
Streptococcus (Total)	8.89 x 10 ⁶	Hi		(<3.00 x 10 ⁵)	4.76%	(<5%)
<i>Streptococcus lutetiensis</i>	8.89 x 10 ⁶				4.76%	
Yeast (Total)	<1.00 x 10 ¹			(<1.00 x 10 ⁴)		

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Name: Bullock, Khia

Anaerobes	cfu/gm	Hi	Lo	Normal Range	% Distribution	Normal Distribution
Total Anaerobe Count	7.63 x 10 ¹⁰			(1.00 x 10 ⁸ - 1.00 x 10 ¹²)		
Bacteroides (Total)	7.62 x 10 ¹⁰			(5.00 x 10 ⁸ - 9.50 x 10 ¹¹)	99.90%	(90-95%)
<i>Bacteroides ovatus</i>	1.78 x 10 ¹⁰				23.31%	
<i>Parabacteroides distasonis</i>	5.84 x 10 ¹⁰				76.59%	
Eubacterium (Total)	<1.00 x 10 ⁸		Lo	(<1.00 x 10 ⁹)	0.00%	(<15%)
Lactobacillus (Total)	6.35 x 10 ⁵			(5.00 x 10 ⁵ - 1.00 x 10 ⁷)	0.00%	(0.5-1.5%)
<i>Lactobacillus paracasei</i>	6.35 x 10 ⁵				0.00%	
Bifidobacterium (Total)	7.62 x 10 ⁷			(5.00 x 10 ⁵ - 5.00 x 10 ⁸)	0.10%	(5-11%)
<i>Bifidobacterium longum</i>	7.62 x 10 ⁷				0.10%	
Clostridium (Total)	1.27 x 10 ⁶			(<5.00 x 10 ⁸)	0.00%	(1-10%)
<i>Clostridium sardiniense</i>	1.27 x 10 ⁶				0.00%	

Detection limits: Aerobes 1 x 10⁴; Yeasts 1 x 10¹; Anaerobes 1 x 10² 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)



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Specialist Testing Laboratory

Comments

Eubacterium

- **Undetectable Levels of *Eubacterium* spp.**
- *Eubacterium* sp is member of the intestinal microbial flora of human, and is regarded as one of the most frequently recovered organisms in the gastrointestinal tract, second only to the *Bacteroides* spp.
- The organism is responsible for the deconjugation of bile acids and the production of butyric acids.
- The organism requires the amino acids arginine and citrulline for growth.

Faecal Yeasts

Comments

- Undetectable levels of yeasts in the sample.

We trust these comments assist you in the interpretation of Bioscreen reports. If you require further assistance please do not hesitate to contact Bioscreen anytime.

References

1. van der Wiel-Korstanje JA, Winkler KC. The faecal flora in ulcerative colitis. *J-Med-Microbiol.* 1975;8:491-501.
2. Edwards CA, Duerden BI, Read NW. The effects of pH on colonic bacteria grown in continuous culture. *Journal of Medical Microbiology.* 19(2):169-80, 1985.
3. Caldarini MI, Pons S, D'Agostino D et al. Abnormal fecal flora in a patient with short bowel syndrome. An in vitro study on effect of pH on D-lactic acid production. *Dig Dis Sci.* 1996;41:1649-1652
4. Hove H, Mortensen PB. Colonic lactate metabolism and D-lactic acidosis. *Dig Dis Sci* 1995;40.
5. Shah M, Beuerlein M, Danayan K. An approach to the patient with a life-threatening acid-base disturbance: the acidemias. *University of Toronto Medical Journal* 2001;78:122-28.
6. Uribarri J, Oh MS, Carroll HJ. D-lactic acidosis. A review of clinical presentation, biochemical features, and pathophysiologic mechanisms. *Medicine (Baltimore)* 30 1998;77:73-82.
7. Salvioli G, Salati R, Bondi M, et al. Bile acid transformation by the intestinal flora and cholesterol saturation in bile. Effects of *Streptococcus faecium* administration. *Digestion.* 1982;23:80-88.
8. Jacob SE, James WD. From Road Rash to Top Allergen in a Flash: Bacitracin. *American Society for Dermatologic Surgery* 2004;30:521-24.

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