



Functional Group Analysis

Sample: 1016



Client:

Microbial Matrix Systems Inc.

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MMSI Sample #	Sample ID	Sporeformers Bacteria CFU/ml(gm)	Heterotrophic Bacteria CFU/ml(gm)	Total Fungi PDA CFU/ml(gm)	Total Pseudomonads CFU/ml(gm)	Fluorescent Pseudomonads CFU/ml(gm)	Phosphorus Solubizers CFU/ml(gm)	Cellulose Degradars CFU/ml(gm)	Nitrifying Bacteria CFU/ml(gm)
1016	WPExtract Sep-65	1.00E+08	1.20E+08	3.00E+04	5.00E+07	2.40E+08	1.30E+08	9.00E+02	1.90E+06

Comments:

*A sample was provided and a 1:10 serial dilution was made using 1M phosphate buffer pH 7.2
100ul aliquot of each dilution was aseptically spread plated onto each of media groups above.
All plates were incubated at 28 - 30C for 24 - 120 hours corresponding to its respective media.*



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Bacteria and Fungi

Sample #	Sample ID	GDW	Active Bacteria (100 - 200µg)	Active Fungi (2 -10µg)	Total Bacteria (50 - 300µg)	Total Fungi (150 - 200µg)	Fungal Dia
	Desired Range						
1016	WPLExtract170111	1.00	0.00	0.00	124.36	4.68	2.5

A liquid sample identified as WPLExtract was submitted for direct microscopy examination.

There was no "metabolically active" bacteria or fungi present. "Metabolically active" means that microbes are utilizing nutrients for their own metabolic processes.

There is however, Total Bacteria and Total Fungi present. These total population represent a dormant but viable population. They are dormant and will become "metabolically active" when ideal temperatures, oxygen and food sources are available.

If this liquid product is to be sold as "shelf stable" then having low Active Bacteria and Active Fungi is desirable, as long as, bacteria and fungi are viable and can become "active" once inoculated into receiving medium or soil. The above Total Bacteria and Total Fungi population are in fact "viable" (see Functional Group Assessment).