



## CERTIFICATE OF ANALYSIS

**Product Name:** ImmuOligo MBG®  
**Manufacturing Date:** October 23, 2015  
**Lot Number:** 20151023MBGA  
**Country of Origin:** U.S.A.

### Physical, Chemical and Microbiological Specifications

Parameter	Analysis Results	Specifications	Assay Method
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#### PHYSICAL PARAMETERS

<b>Appearance</b>	Conformed to Standard	Fine, beige powder	Visual
<b>Odor</b>	Conformed to Standard	Mild	Olfactory
<b>Taste</b>	Conformed to Standard	Bland	Taste

#### CHEMICAL PARAMETERS

<b>Total Carbohydrate (%)</b>	90.6	> 85.0	By Difference/PSAM
<b>Beta-Glucan (%) (Beta 1,3/1,6 D-Glucan)</b>	70.8	Min 55	SBG SOP21885QC/ Megazyme Enzymatic Mod. (K-YBGL)
<b>Fat (%)</b>	0.7	< 1.0	AOAC 922.06
<b>Protein (%)</b>	1.2	< 2.0	AOAC 922.15
<b>Moisture (%)</b>	3.9	< 7.0	AOAC 925.45A/V.O
<b>Ash (%)</b>	3.6	< 5.0	AOAC 900.02 mod.

#### HEAVY METALS

<b>Lead</b>	Negative	<0.5 ppm	ICP-MS
<b>Arsenic</b>	Negative	<0.5 ppm	Cold Vapor
<b>Cadmium</b>	Negative	<1.0 ppm	ICP-MS
<b>Mercury</b>	Negative	<0.5 ppm	ICP-OES

#### MICROBIOLOGICAL PARAMETERS

<b>Aerobic Plate Count (CFU/g)</b>	Conformed to Standard	<25,000	FDA BAM
<b>Yeast and Mold (CFU/g)</b>	Conformed to Standard	<150 combined	FDA BAM
<b>Total Coliforms (MPN/g)</b>	Conformed to Standard	<10.0	AOAC 991.14
<b>Staphylococcus aureus</b>	Negative	N.D.	AOAC 2003.07/2003.08
<b>E. coli</b>	Negative	N.D.	FDA BAM/AOAC 991.14
<b>Salmonella sp.</b>	Negative	N.D.	FDA BAM



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QC by L.L. 11/05/15