

Certificate of Analysis

Product Name: **APG® 3-6** Beta 1,3/1,6 Gluco Polysaccharide Dispersible Powder derived from Baker's Yeast (*Saccharomyces cerevisiae*)
Common Name: Bakers Yeast Beta Glucan
Product No: F3001
Lot No: 12355-021
Manufacture Date: 20DEC12
Exp. Date: 20DEC17
Date COA Issued: 29MAY13

Attribute	Current Specification	Result	Method of Analysis
Origin:	A proprietary strain of non-GMO <i>Saccharomyces cerevisiae</i> *	Conforms	NA
Gluco Polysaccharide (beta 1,3/1,6) ¹	≥ 60% (dwb) ²	74%	Assay per FCC Beta Glucan from Bakers Yeast Monograph ** By Calculation
Carbohydrates:	> 60%	85.04%	
Appearance:	Fine beige/tan powder	Conforms	Biothera SOP QC20140-00
Taste:	Bland	Conforms	Biothera SOP QC20590-00
Odor:	Faint/mild	Conforms	Organoleptic
Protein:	< 10%	2.99%	AOAC 990.03
Fat:	< 20%	4.98%	AOAC 989.05
Ash:	< 5%	1.27%	AOAC 942.05
Moisture:	< 8%	5.72%	AOAC 925.45A
Aerobic Plate Count:	< 20,000 cfu/g	< 10 cfu/g	AOAC 966.23
Coliform:	< 3 MPN/g	< 3 MPN/g	AOAC 966.24
<i>Salmonella</i> sp:	Negative	Negative /25g	AOAC 2004.03
<i>E. coli</i> USP:	Negative /10g	Negative /10g	USP34, NF29, 2011,62
Yeast + Mold Total: with Yeast ≤100 cfu/g Mold ≤100cfu/g	≤ 100 cfu/g combined	< 10 cfu/g	FDA-BAM 7 th ed
<i>Staphylococcus aureus</i> :	Negative /10g	Negative /10g	USP34, NF29, 2011,62
Lead:	< 0.5 mg/kg	< 0.025 mg/kg	SW-846 6020
Mercury:	< 0.1 mg/kg	< 0.02 mg/kg	SW-846 7473
Arsenic:	< 1.0 mg/kg	0.031 mg/kg	SW-846 6020
Cadmium:	< 1.0 mg/kg	0.011 mg/kg	SW-846 6020

Recommended Storage Conditions: Room Temperature, Cool, Dry Conditions
Shelf Life: 5 Years From Date of Manufacture

¹ As glucose

² Content at time of analysis on a dry weight basis

* This Primary (non spent) Yeast is used because of the unique chemical structure of the β-1,3/1,6 glucan synthesized into the cell wall. The unique structure includes the frequency of side chains, the side chain lengths, and the ratio of different glycosidic linkages that contribute to primary, secondary, and tertiary structure.

** Food Chemicals Codex 7th ed, 3rd supplement **pgs. 1686-1689


Quality Assurance