



MEGAZYME B-GLUCAN KIT K-YBGL with mycobiotech SIBIPHARM samples

Description of samples

Table 1

Samples Information			
Name	Quantity (g)	Batch	Date of Expiry
Chaga extract	50 g	CH00202240415	08 – 12 – 2027

Purpose

The purpose of this assay is to test beta and alpha- glucan content of functional mushroom extract samples according to the method described in K-YBGL MEGAZYME.

Diagnostic kits for the beverage, food and agricultural industries MEGAZYME

Table 2

Analyte	B-Glucan
Assay format	Spectrophotometer
Detection method	Absorbance
Wavelength (nm)	510
Signal response	Increase
Linear range	4 to 100 µg of glucose per assay

Table 3

Code	Product Name	Lot No. / Serial No.
K-YBGL 700004358	β-Glucan Assay Kit (Yeast and Mushroom)	241035 - 01

Table 4 Results

Determination of alpha and beta glucan using K-YBGL				
Sample	Results of samples in duplicate			Average of results
Sample Results	Total Glucan	44.34	46.86	45.6
	Alpha-Glucan	4.31	4.12	4.22
	Beta-Glucan	40.03	42.74	41.39
Control Yeast β-glucan 47% L: 230501B	Total Glucan	49,76	48.51	49.14
	Alpha-Glucan	0.87	0.86	0.86
	Beta-Glucan	48.89	47.65	48.27

Samples were subjected to the analytical procedure in duplicate with repeated determinations.

The control sample of β-glucan with a yeast content of 47% was tested using half of its amount under the same conditions as the sample due to the extract being too dark in color



β -Glucan Assay Kit (Yeast and Mushroom)

Table 5

Test	Specification	Result
Assay performance	The reaction is completed within the time specified in the kit instructions.	Corresponds
	Target value for recommended standard material +/- 5%	Corresponds

This lot meets our specification.

Sources of Variance

Upon reviewing the data presented in this report, it is important to consider all sources of variance when evaluating the trueness of any laboratory method.

Sample Variance-How homogeneous is the sample being analyzed and how representative is that sample of the larger portion of material that this sample is associated with

Equipment Variance-Are the balances, pipettors, and other laboratory instruments operating within their expected performance parameters and have they been recently calibrated

Technician Variance- Has the technician been trained and are they using best laboratory practices when performing the analysis

Assay Variance-What is the expected variance of the assay based on historical performance and validation data made available by the method provider

These major sources of variance compounded demonstrate the total variance in the data generated by any method.