

Americold Logistics
 JBL Warehouse - EDISON
 100 Saw Mill Pond Road
 Edison NJ 08817
 USA

Certificate of Analysis

Date format	MM/DD/YYYY
Creation date	05/09/2023
Your order no.	4500769959
Date	01/18/2023
Delivery note	81017757 000010
Date of dispatch	05/09/2023
Our reference	932417 000010
Date	01/18/2023
Client number	101710
Date of arrival	06/16/2023

Material / Product / Description

101563 / / Xanthan Gum FN food grade normal in 50 lbs cartons

Shipping point

Jungbunzlauer Austria AG, Factory Pernhofen, 2064 Wulzeshofen

Batch	Quantity	Date of production	Date of expiry	Production plant, country	Country of Origin
2555992	13,200 LB	04/20/2023	04/2026	Pernhofen, AT	AT

Parameter	Unit	Specification	Value
Particles < 0.250 mm (mesh 60)	%	>= 99	100
Particles < 0.180 mm (mesh 80)	%	>= 95	98
Viscosity 1%XG in 1%KCl-Sol. (60 rpm)	mPa.s	1400 - 1600	1540
Viscosity Ratio V1:V2 (24°C:66°C)		1.02 - 1.45	conforms*
Description			conforms
free flowing powder			
Identification			conforms*
Assay	%	91.0 - 108.0	conforms*
Loss on Drying	%	<= 12.0	8.9
pH (of 1% solution)		6.0 - 8.0	7.3
Isopropyl Alcohol	mg/kg	<= 500	13
Powder Colour		>= 60	79
Pyruvic Acid	%	>= 1.5	conforms*
Ash	%	6.5 - 16.0	11.5
Nitrogen	%	<= 1.5	conforms*
Arsenic	mg/kg	<= 2	conforms*
Lead	mg/kg	<= 2	conforms*
Mercury	mg/kg	<= 1	conforms*
Cadmium	mg/kg	<= 1	conforms*
Total Aerobic Microbial Count	CFU/g	<= 1000	<= 1000
Escherichia coli		negative/25g	conforms
Salmonella spp.		negative/25g	conforms
Bile-tolerant gram-negative bacteria		negative/g	conforms
Pseudomonas aeruginosa		negative/g	conforms
Staphylococcus aureus		negative/g	conforms
Total Yeast and Mould Count	CFU/g	<= 100	<= 100
Xanthomonas campestris, viable cells		negative/g	conforms

We herewith confirm that this product is specified to meet the requirements of the latest edition of the European Pharmacopoeia (Ph. Eur.), the United States Pharmacopoeia (USP), the Food Chemicals Codex (FCC) and of Commission Regulation (EU) No 231/2012. All analytical methods are in accordance with the latest requirements of the Ph. Eur., the USP, the FCC or are equivalent. Test methods are available on request.

*) Analysis is confirmed based on In-Process-Control or by random testing.

QUALITY CONTROL MANAGER

DI Clemens Brunner

FSSC 22000 certified by LRQA- Reg. No. 10382348 - Certificate Expiry on Aug. 27th, 2023
 GMP+B1+B3 certified by LRQA- Reg. No. 10373162 - Certificate Expiry on July 31st, 2023
 ISO 9001:2015 certified by LRQA - Certificate No. 10370717 - Certificate Expiry on July 8th, 2023
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