

## **CERTIFICATE OF ANALYSIS**

<b>Product Name</b>	Xanthan Gum, Ultra Soft
<b>INCI Name</b>	Xanthan Gum
<b>CAS#</b>	11138-66-2
<b>Lot Number</b>	0D0523K
<b>Manufacture Date</b>	04/2023
<b>Re-test Date</b>	04/2026

<b>Analytical Tests</b>	<b>Specification</b>	<b>Result</b>
<b>Particle Size, %</b>	Not less than 95	100
<b>Loss on Drying, %</b>	Not more than 15.0	12.2
<b>Appearance</b>	Pass	Pass
<b>Hydration Rate, min</b>	For Information Only	6.3
<b>Viscosity (1% KCl sol.), cP</b>	800 - 1300	900
<b>Low Shear Viscosity</b>	250 - 600	297
<b>pH (1% Solution)</b>	6.0 - 8.0	7.7
<b>Transmittance, %</b>	Not less than 85	88
<b>Loss on Drying, %</b>	≤ 15	7.8
<b>Isopropyl Alcohol, ppm</b>	Not more than 500	128
<b>Bacteria (Viable Mesophilic), cfu/g</b>	Not more than 1000	< 100
<b>Yeast &amp; Mold, cfu/g</b>	Not more than 100	< 100
<b>Coliform</b>	Negative by MPN	NEGATIVE
<b>E. coli</b>	Absent in 25g	ABSENT
<b>Salmonella spp.</b>	Absent in 25g	ABSENT
<b>Total Aerobic Plate Count</b>	Not more than 1000	< 100
<b>Total Yeasts and Molds</b>	Not more than 100	< 100
<b>Escherichia coli</b>	Absent in 1.0g	PASS
<b>Salmonella spp.</b>	Absent in 10g	PASS
<b>Candida albicans</b>	Absent in 1.0g	PASS

**Disclaimer:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

Analytical Tests	Specification	Result
Viscosity Ratio	1.02 - 1.45	1.40
Identification	Pass	PASS
Identification Test A (EP)	Pass	PASS
Pyruvic Acid, %	Not less than 1.5	5.6
Total Nitrogen, %	Not more than 1.5	0.3
Assay, % carbon dioxide	4.2 - 5.0	4.2
Assay, % xanthan gum	91.0 - 108.0	91.9
Ash, %	6.5 - 16.0	13.1
Total Heavy Metals, ppm	Not more than 10.0	< 10.0
Lead, ppm	< 2.0	Not more than 2.0
Arsenic, ppm	< 2.0	Not more than 2.0
Mercury, ppm	< 1.0	Not more than 1.0
Cadmium, ppm	< 1.0	Not more than 1.0
S. aureus	Absent	Absent in 1.0g
P. aeruginosa	Absent	Absent in 1.0g

#### STABILITY AND STORAGE:

Keep in tightly closed container in a cool and dry place, protected from sunlight. When stored for more than 36 months, quality should be checked before use.

**As it is electronically generated document, hence no signature required.**