

Certificate of Analysis

Product Name : Xanthan Gum , Food Grade, 80mesh, SHL_XG980

Quality Status: meeting FCC IV, E-415 Edition, USP23/24

Xanthan Gum was produced in conformity with Food Safety System

Material must be fit for use in food and pharmaceutical applications under currently valid European and international food and pharmaceutical laws

GMO Free

Batch Type: SHL_XG980

Analysis Date: 2015. 02. 05.

Manufacturing Date: 2015. 02. 05.

Expiry Date: 2017. 02. 04.

Lot no. : F9801502185

Quantity: 10000kgs

<u>Item</u>	<u>Standard Value</u>	<u>Testing Results</u>
Appearance	white to cream colored , free flowing powder	Conform
Solubility	soluble in hot or cold water	Conform
Viscosity	1200-1700Pa.s (1% in 1%KCL-solution, Spindle 3, 60rpm, 25 °C)	1555Pa.s
Particle Size		
Through 60Mesh (250micron)	100%	100%
Through 80Mesh (180micron)	>96%	97.50%
Viscosity Ratio (V1: V2)	1.02-1.45	1.05
Loss on Drying	<13%	11.28%
pH of 1% solution	6-8	7.45
Pyruvic Acid	>1.5%	3.50%
Ash	<13%	9.10%
Shearing Ratio	>6.0	8.16
Isopropyl Alcohol	≤500ppm	Conform
Assay	91%-108%	Conform
Nitrogen	<1.5%	Conform
Lead	<2ppm	Conform
Arsenic	< 3ppm	Conform
Heavy Metals	< 10ppm	Conform
Total Plate Count	< 2000cfu/g	800cfu/g
Moulds and Yeast	< 100cfu/g	Conform
Staphylococcus aureus	Negative/g	Conform
Salmonella	Negative/g	Conform
E.coli	Negative/g	Conform

Packing: 25kgs kraft paper bag, palletized and shrink wrapped

Storage: in sealed containers under dry and cool conditions

For and on behalf of
HONGKONG LUCKYSTAR ADDITIVES CO., LIMITED
香港華運添加劑有限公司

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Authorized Signature(s)