



## CERTIFICATE OF ANALYSIS

PRODUCT: MALTODEXTRIN

BATCH NO: UK004

PRODUCTION DATE: APRIL-2024

EXPIRY DATE: TWO YEARS FROM THE DATE OF MANUFACTURING

CONSIGNEE: KOUN SPECIALITY CHEMICALS CO.

REFERNCE NO: 2425300129 DATE: 24/04/2024

SI No	Parameters	Specification	Results
1	Description	Maltodextrin occurs as a white slightly hygroscopic powder As granules of similar description, or as a clear to hazy Solution in water. It is purified concentrated, nutritive mixture of saccharide polymers obtained by the portial hydrolysis of Edible starch. Powders or granules are freely soluble or readily soluble.	Complies
2	Solubility	Freely soluble in water	Complies
3	Identification test	A red precipitate of cuprous oxide forms. With (5 mL of hot Fehling solution).	Complies
4	Assay on dry base	Less then 20.0 % reducing sugar content (Dextrose Equivalent) express as D-glucose DE 17-20	19.54
5	Lead	NMT 0.50 mg/kg	Complies
6	Sulfur Dioxide (SO <sub>2</sub> )	NMT 0.0010 %	0.0009
7	Protein	NMT 0.5 %	0.040
8	Sulfated Ash	NMT 0.5 %	0.046
9	Total solid	Powders & Granules: NLT 90.0% ; Liquids: NLT 50.0%	96.08
<b>Additional Tests</b>			
10	Heavy metals	10.0 ppm	Complies
11	Bulk Density (Gm/ml)	0.30 – 0.60 Gm/ml	0.46
12	Arsenic ( mg/kg)	NMT 1.00 ppm	Complies
13	Lead ( mg/kg)	NMT 1.00 ppm	Complies
14	pH(25% Sol)	4.00 – 7.00	5.59
15	Starch	No blue color is produced with Iodine sol	Complies
16	Clarity (20.0% Sol) <sup>1</sup>	Clear to slight hazy	Complies
17	Particle size 40# (425 Micron)	100 % pass	Passes
<b>Microbiological Tests</b>			
18	Total plate Count	NMT 1000 cfu/gm	220
19	Total Yeast & Mould	NMT 100 cfu/gm	<10
20	Enterobacteriaceae	< 10 cfu/gm	<10
21	E coli	Absent/gm	Absent
22	Salmonella spp.	Absent/10 gm	Absent
23	Shigella	Absent/10 gm	Absent
24	Staphylococcus aureus	Absent/gm	Absent
25	Pseudomonas aeruginosa	Absent/gm	Absent

Place: Ahmedabad

Date: 24/04/2024

For, Gujarat Ambuja Exports Limited.

(Manufacturer)

Authorised signatory

