

Las 4NF

DESCRIPTION

Las 4NF- Lactose Substitute Non- Fat Solid is an **Enzymatically Modified, Clean Label, Vegan, Gluten-Free, Plant-based and Non-GMO starch** used as a **special additive for improving texture of Paneer**. It is 100% naturally made which does not have any preservatives and Mono sodium Glutamate (MSG).

SPECIFICATIONS

S.No	PARAMETERS	SPECIFICATIONS	METHOD OF ANALYSIS
1	APPEARANCE	WHITE COLOR FINE FLUFFY POWDER	ASF/QP/QA/06/15
2	SOLUBILITY	SOLUBLE IN COLD WATER	ASF/QP/QA/06/01
3	pH OF 10% (aqu. Soln)	2 TO 4	IS 4706(PART 2)
4	VISCOSITY OF 10% SOLUTION IN BROOKFIELD VISCOMETER [MODEL :LVDV II+ PRO] (Spindle No :2 , RPM 50 , Temp 80°C)	MAX 20 cP	ISI 17-1e
5	MOISTURE CONTENT (w/w)	Max 8%	IS 4706(PART 2)
6	ASH CONTENT (w/w)	Max 0.5%	IS 4706(PART 2)
7	BULK DENSITY (gms/ ml)	MIN 0.30	ASF/QP/QA/06/08

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MICROBIOLOGICAL PARAMETERS

S.No	TEST PARAMETERS	UNITS	LIMITS AS PER FSSAI	METHOD OF ANALYSIS
1	Total Plate Count	Cfu/g	Not more than 40000	IS 5402
2	Yeast & Mould	Cfu/g	Not more than 100	IS 5403
3	<i>E coli</i>	Present/Absent/g	Absent	IS 5887:PART 1
4	Salmonella	Present/Absent/25	Absent	IS 5887:PART 3
5	Coliform	Cfu/g	Absent	IS:5401
6	<i>Staphylococcus aureus</i>	Present/Absent/25	Absent	IS 5887:PART 2
7	<i>Listeria monocytogenes</i>	Present/Absent/25	Absent	IS 14988:PART 1

MINERALS AND HEAVY METALS PARAMETERS

S.No	TEST PARAMETERS	UNITS	LIMITS AS PER FSSAI	METHOD OF ANALYSIS
1	Arsenic	Mg/kg	Not more than 1.1	FSSAI MANUAL 2016
2	Lead	Mg/kg	Not more than 2.5	FSSAI MANUAL 2016
3	Cadmium	Mg/kg	Not more than 1	FSSAI MANUAL 2016
4	Mercury	Mg/kg	Not more than 0.25	FSSAI MANUAL 2016
5	Copper	Mg/kg	Not more than 30	FSSAI MANUAL 2016
6	Tin	Mg/kg	Not more than 250	FSSAI MANUAL 2016
7	Zinc	Mg/kg	Not more than 50	FSSAI MANUAL 2016

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APPLICATIONS

1. Milk is first heated (pasteurizing) to 85°C and held for 12 minutes.
2. Add 2% to 20% of LAS 4NF based on the Protein Content of the Milk to the pasteurized milk and stir slowly to ensure full dissolving at 80° C.
3. LAS 4NF itself contains coagulant. If necessary add coagulant as per the costumer requirement slowly to the milk by slow stirring, maintaining the temperature at 70° C.
4. Keep Slow stirring for complete separation of solids and whey.
(Indication: Whey will turn to light green color and small lumps of solids will settle down)
5. The whey water is filtered through a fine mesh of muslin cloth. The separated particles remain in muslin cloth and it is held in hooper.
6. Apply pressure on the covered solid spread evenly on hooper, with a flat lid in lay till water droplets stop.
7. Then the Paneer is pre-cooled in pure water at room temperature for 10 mins or till the external sides can be held in hand water for 10 mins , then dip in chilled water for 4 hours.

DOSAGE

Use 2 to 20% of LAS 4NF of total batch size, based on the protein content of the milk. For lower protein content in the milk higher LAS 4NF need to be used.

STORAGE

Exhibits excellent stability when stored under cool and dry ventilated place. Avoid direct sun light.

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BEST BEFORE DATE

Twelve months from the date of manufacturing.

PACKING

Available in 25 Kgs net weight PP bags, with moisture proof line inside.

ADDITIONAL INFORMATION

FSSAI Certification	Yes
ISO 9001:2015 Certification standard from SGS	Yes
ISO 22000:2018 Certification standard from SGS	Yes
BRC Global Standard for Food Safety Certification from SGS	Yes
Kosher Certification by Kosher Check, British Columbia, Canada	Yes
Halal Certificate	Yes
ZED Certificate	Yes
Preservative	NOT PRESENT/ USED IN PRODUCT

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