



GIIOINSTA LV – nGM

High Oleic, Low viscosity

non-GMO Soyabean Lecithin liquid for Instantising. (Non-GMO Soyabean Based, no Palm)

Description

Light to dark brown Low viscosity non-GMO Soyabean Lecithin, which is standardized with no extraneous flavour.

Application

Instantizer for Spray dried powder.

Formulation of health food is always a challenge for Nutritionist, because of ever changing variety of demands. It is even bigger challenge for the ingredients manufacturer to comply Nutritionist requirements.

Whey Powders, Concentrates, Skim Milk Powders & Protein concentrates from important part of Health food powders. It is essential to make them easily dispersible in water.

- Skim milk powder.
- Full Cream milk powder.
- Whey Powder.
- Whey Protein Concentrates
- Coca/milk instant drinks

Please find attached RANCIMAT test results for GIIOInsta LV-nGM. It is stable for >100 month or >8 years. Extremely stable for PV & Rancidity.



GIIAVA

GIIOINSTA LV – nGM

GIIAVA now produces unique GIIOINSTA instantizer with following qualities.

- Instantizer is based on non-GMO Soyabean Lecithin.
- It does not contain any Palm Based products.
- It has very low viscosity & makes it easy to handle.
- It is ultra-filtered & so easy to make fine spray through nozzles.

| Rancimatic Test at 125°C | | | |
|--|---|-----------------------------------|---------|
| ID 1 | | ID 2 | |
| GIIOINSTA | | SAMPLE – 4, GIIAVA IINDIA PVT LTD | |
| <div style="display: flex; justify-content: space-between;"> Induction Time h (101.05 hrp not completed) </div> | | | |
| Method name | ITC 125 RPOL | Creation Date 10.08.2018 10:19:01 | |
| Creator | Administrator | | |
| Temperature | 125 °C | Stop time | 0.00 h |
| Delta T | 1.60 °C | Stop at Conductivity | 0 μS/cm |
| Gas flow | 20 L/h | Stop at endpoint | ν |
| Start delay | 0 min | Delta Kappa | 0 μs/cm |
| Start mode | <input checked="" type="radio"/> per channel <input type="radio"/> per 2 channels <input type="radio"/> per block | Evaluation delay | 0.00 h |
| | | Evaluation suppressions start | 0.00h |
| | | Evaluation Suppression end | 0.00 h |
| | | Evaluation sensitivity | 1.00 |
| $IT = 2^{(T-TG)/10}$ $= 2^{(125-30/10)}$ $= 2^{9.5}$ <p>OR</p> $101.5 \times 2^{9.5}$ $73,167.27 \text{ hrs}$ 1016 Months | | | |

GIIOINSTA LV -nGM

| 1. Chemical & Physical Analysis | | |
|--|--------------|--------------------|
| Parameters | Units | |
| Phosphatides (as Acetone Insoluble, % w/w) | >30 | AOCS-Ja-4-46 |
| Moisture (% w/w) | <1 | AOCS-Ja-26-87 |
| Hexane Insoluble (% w/w) | <0.3 | AOCS-Ja-3-87 |
| Toluene Insoluble (% w/w) | <0.3 | AOCS-Ja-3-87 |
| Acid Value (mg KOH/g) | <20 | AOCS-Ja-6-55 |
| Viscosity (cP @ 25°C) | <200 | AOCS-Ja-11-87 |
| 2. Microbiological Analysis | | |
| Total Plate Count (CFU/g) | <1000 | ISO 4833:2003 |
| Yeast (CFU/g) | <100 | FDA BAM April 2001 |
| Mould (CFU/g) | <100 | FDA BAM April 2001 |
| Enterobacteriaceae (detection in 1g) | Negative | FDA BAM April 2001 |
| E-Coli (detection in 1g) | Negative | ISO 16649-2:2001 |
| Salmonella (detection in 25g) | Negative | ISO 6579:2002 |
| 3. Heavy Metals Analysis | | |
| Arsenic (ppm, w/w) | <3 | ICP – AES |
| Lead (ppm, w/w) | <1 | ICP – AES |
| Mercury (ppm, w/w) | <1 | ICP – AES |
| Cadmium (ppm, w/w) | <1 | ICP – AES |
| Total Heavy Metals (ppm, w/w) | <10 | ICP – AES |
| 4. Dosage | | |
| Spray 2-4% w/w on fluid bed during spray drying. | | |
| 5. Packaging | | |
| 200kg HDPE Drums or 1MT IBC or 20 MT in ISO bulk. | | |
| 6. Storage | | |
| In closed container, Product must be stirred well with heating at 40°C before use. | | |
| 7. Shelf Life | | |
| 18 months from the date of manufacture | | |