



GIIOINSTA LV – SF

High Oleic, Low PUFA Low viscosity

Sunflower Lecithin liquid for Instantising. (Non – Allergen, Sunflower Based, no Soya, no Palm, High oxidation Stability due to low PUFA)

Description

Light to dark brown Low viscosity Sunflower 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 form 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 Giiolnsta LV-SF. It is stable for >100 month or >8 years. Extremely stable for PV & Rancidity.



GIIAVA

GIIOINSTA LV – SF

GIIAVA now produces unique GIIOINSTA instantizer with following qualities.

- Instantizer is based on Sunflower Lecithin.
- It is non-Allergen.
- It does not contain any Soya or 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.
- It contains 20-25% lower PUFA (Linolic or Linolenic contents). Makes it extremely stable to PV, Rancidity, or oxidation.

Rancimatic Test at 125°C			
ID 1		ID 2	
GIIOINSTA HIGH OLIEC		SAMPLE – 4, GIIAVA IINDIA PVT LTD	
Induction Time h (101.05 hrp not completed) 			
Method name	ITC 125 RPOL	Creation Date	10.08.2018
Creator	Administrator	10:19:01	
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	v
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			



GIIAVA

GIIOINSTA LV – SF

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		
8 years from the date of manufacture		