

EGG ALBUMEN POWDER HIGH GEL INSTANT

(EAP-HGI)



INGREDIENTS

Hen egg albumen powder: 97,5 %
Acidity regulator: citric acid (E330) 2,5 %

PROPERTIES

EAP-HGI rehydrates easily, produces no lumps and no dust due to its agglomerated, spray dried egg powder particles. EAP-HGI is used for its gel forming properties and water holding capacity. The EAP must be dissolved in a watery solution and the (irreversible) gel properties are created during a heating step. This type of EAP has a much higher gel strength and water binding capacity than a gel prepared by boiling liquid egg white at the same pH conditions. The gel has very good resistance to stretching, bending and shearing. The improved gel properties are created by a heat-induced denaturation of the proteins which coagulate in a pseudo-crystalline lattice as opposed to liquid egg white, which coagulates as an amorphous material.

APPLICATIONS

EAP-HGI is mainly used in meat preparations (sausages, hamburger, ham), fish cakes, crab sticks, surimi and meat replacers. EAP improves the binding capacity and increases the water retention. This type of egg albumen powder can also be used in a batter mix for coating applications (potatoes, chicken, ...). Typical dosage of EAP-HGI is between 2 -5 %.

STORAGE AND SHELF LIFE

Recommended humidity conditions: 40-70% RH
Recommended storage temperature: 5-25°C
Shelf life from production date: 5 years

PACKAGING

- Blue High Density Polyethylene (HDPE) knotted bag
- 20 kg per cardboard box
- 600 kg (3 layers x 10 boxes) on an pallet of 100 cm x 120 cm

PHYSICO-CHEMICAL PROPERTIES

Parameter	Specification
Moisture	Max 8 %
Protein	Min 80 %
pH	7 - 8
Gel strength	Min 130 N

MICROBIOLOGY

Parameter	Specification
Total viable count	≤ 2000 cfu/g
Bacillus cereus	≤ 50 cfu/g
Enterobacteriaceae	< 10 cfu/g
Salmonella	Not detectable in 25 g

RECONSTITUTION

1 part of powder + 7 parts of water =
8 parts of reconstituted liquid egg white

AVAILABLE IN

Enriched cage, barn, free range, organic, KAT

CERTIFICATES

BRC, Halal & Kosher