

Product Technical Data Sheet		Sheet
Product name: Alpha-Lactalbumin		AC code: I4U04025a

Item	Standard	Analysis Method		
Appearance & Solubility				
Appearance	The product is white free-flowing powder			
Typical Analysis				
Alpha-Lactalbumin	≥ 90.0%	HPLC-USP		
Loss on Drying	≤ 6.0% w/w	AOAC 027.05		
Ash	≤ 3.5%	AOAC 930.30		
PH	6.0 ~ 7.5	AOAC 945.27		
Lactose	≤ 0.20%	AOAC 984.15		
Fat	≤ 0.5%	AOAC 989.05		
Protein (N x 6.25) As-Is	≥ 90.0%	AOAC 990.03		
Protein (Nx 6.25) Dry Basis	≥ 95.0%	AOAC 990.03		
Heavy metals				
Total Heavy Metals	≤ 10 ppm	ICP-MASS		
Lead	≤ 3.0 ppm	ICP-MASS		
Arsenic	≤ 1.0 ppm	ICP-MASS		
Cadmium	≤ 1.0 ppm	ICP-MASS		
Mercury	≤ 0.1 ppm ICP-MASS			
Microorganism				
Total Plate Count	≤2,500 cfu/g	AOAC 966.23		
Total Molds & Yeasts	≤10 cfu/g	AOAC 997.02		
E.Coli	Negative/g	AOAC 966.23		
Salmonella	Negative/25g	AOAC 966.23		
S.Aureus	Negative/10g	AOAC 966.23		
Storage & Shelf Life				
Package	25kgs/Carton			
Shelf life	The shelf life for the product is 24 months from	n date of production. Use it as soon as		
	possible once it is opened.			
Storage	Store in unopened original package under clean and dry condition, away from sunlight			

2.Origin & Ingredient				
Country of origin of the product: USA				
This product is a pure material	This product		is a compound material	
	□ bovine		Specific Source: /	
	□ porcine		Specific Source: /	
Animal origin	□ avian		Specific Source: /	
	□Others:		Specific Source: /	



Synthetic		Starting material:		origin: China	
	☐ Catalysis By E	Enzymes	Name	Of Enzyme: /	
Biotechnological processing				Sources Of Enzymes: /	
	☐ Fermentation			ource Of Medium: /	
		Strain:		: Bacteria:	
	Botanical Name:	Botanical Name: Milk			
Botanical Origin	Part:		/		
	Wild Or Cultivate	ed:	/		
	Country Of Origi	n:	/		
	Solvent Used:		/		
3.Nutrition Data					
Nutritional Composition		⊠Per 100g		lPer Serving	
□ Energy(Kj) ⊠ Energy(K	cal)	370			
Fat(G)		0.1			
Carbohydrates(G)		0			
Protein(G)		92			
Sodium (Mg)		680			
Remarks: Nutrition Data Are Obtain	ned By 3 <sup>rd</sup> Party Lab; T	ested On A Year	ly Basis		
4. GMO declaration YES NO (Means Not					
				Contain)	
The product does not contain or consist of GMO				$\boxtimes$	
The product is not produced from GMO or not contain ingredients produced				$\boxtimes$	
from GMO (irrespective of whether there is NDA or protein of GM origin in					
the final production)					
This product is not produced by me	ans of GM microorga	nism including			$\boxtimes$
precursor substances, e.g. with GM	Os or Genetically Mo	dified			
microorganisms processing aids(back)	cteria, yeast,)				
This product is not produced with t	he help of enzymes, v	which were obta	ined		$\boxtimes$
from GMOs	-				
Does the product contain any ingre	dients from animal?				$\boxtimes$
If yes, are genetically modified crop	s contained in the fe	ed for the anima	al?		
We confirm that this product comp	lies with regulations	EC/18292003 an	d EC18	30/2003 and	
keep NON-GMO statement available					
5.Allergen declaration					
We have carefully reviewed this p	product according to	o EU Regulatio	n 1169	/2011 and n	nodifications and
confirm the following:					
	Direct incorporation as a I			CDOCC CONT	TANAINIATIONI
	material or in a derivati	ve form		CROSS CON	TAIVIINATION



	(don't forget the carriers, the additives and the processing aids)		, ,					Presence on the production factory	
	Yes	No	Yes	No	Yes (precise	No	Yes	No	
	(precise nature)		(precise		the nature)		(precise		
			the nature)				the		
							nature)		
Cereals containing gluten(1) and				N		N		N	
products thereof		N							
Crusta assess and products they are		NI.		N.I		N		N	
Crustaceans and products thereof		N		N				N	
Eggs and products thereof		N		l		N		N	
				N					
Fish and products thereof (2)		N		N		N		N	
Peanuts and products thereof		N		N		N		N	
Soybeans and products thereof (3)		N		N		N		N	
Milk and products thereof (including		N		N		N		N	
lactose)(4)									
Nuts (5) or products thereof		N		N		Ν		N	
Celery and products thereof		N		N		Ν		N	
Mustard and products thereof		N		N		Ν		N	
Sesame seeds and product thereof		N		N		Ν		N	
Sulphur dioxide and sulphites at		N		N		N		N	
concentrations of more than 10mg/kg or									
10 mg/l expressed as SO2									
Lupines and products thereof		N		N		Ν		N	
Mollusc and product thereof		N		N		Ν		N	

- (1) Cereals which contain gluten (i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strains) except: wheat-based glucose syrups including dextrose, wheat-based maltodextrins, glucose syrups based on barley, cereals used for making distillates or ethyl alcohol of agricultural origin for spirit drinks and other alcoholic beverages;
- (2) Except: fish gelatine used as carrier for vitamin or carotenoid preparations, fish gelatine or Isinglass used as fining agent in beer and wine;
- (3) Except fully refined soybean oil and fat, natural mixed tocopherols (E306), natural D-alpha tocopherol, natural D-alpha tocopherol acetate, natural D-alpha tocopherol succinate from soybean sources; vegetable oils derived phytosterols and phytosterol esters from soybean sources; plant stanol ester produced from vegetable oil sterols from soybean sources;
- (4) Except when used for making distillates or ethyl alcohol of agricultural origin for spirit drinks and other alcoholic beverages, lactitol;
- (5) almond (Amydalus communis L.) hazelnuts (Corylus avellana), walnut (Juglans regia), cashew (Anacardium occidentale), pecan nuts (Carya illinaiesis), brazil nut (Bertholletia excelsa), pistachio nut (Pistacia vera), macadamia nut and queensland nut (Macadamia terniflora) and products thereof, except nuts used for making distillates or ethyl alcohol of agricultural origin for spirit drinks and other alcoholic beverages;

6.NON IRRAIDATION		
(According to EU directive 1999/2/EC & 1999/3/EC)		
This product has not been treated with ionising radiation	□YES	⊠NO, not treated
None of the raw materials we used for this product have been treated	□YES	⊠NO, not treated
with ionising radiation.		
We confirm above Non-Irradiation statement is available		×

7.NANOMATERIAL		
(according to EU Regulation (EU) No. 1169/2011)		
This product does not contain any nanomaterials as defined in EU food	□YES	⊠NO, does not contain



legislation		
This product has not been made with nanotechnology	□YES	⊠NO, is not made with
		nanotechnology
We confirm above Non-Nanomaterial statement is available	×	

8. BSE/TSE information				
(according to EU legislation 999/2001; EP general chapter 5.2.8)				
Cattle, sheep, goats and animals that are naturally susceptible to infect w	ith transmissible spongiform encephalopathy			
agents or susceptible to infection through the oral route other than huma	ans and non-human primates are defined as			
"ESE-relevant animal species				
Pigs ad birds are not naturally susceptible to infection via the oral route; there	fore, they are not TSE-relevant animal species.			
Dogs, rabbits and fish are not TES-relevant animal species."				
the product contains no ingredients of ruminant origin and no materials	□YES			
derived from, or exposed to ruminants affected by or under quarantine for	⊠NO			
Transmitting Transmissible Spongiform Encephalopathy (TSE) / Bovine	□NA			
Spongiform Encephalopathy (BSE)				
In the manufacturing of this product, there is no any raw or source material	□YES			
and /or reagent used that is of animal origin i.e. bovine, serum-albumin,				
enzymes, culture broths including those used to prepare working or master $% \left( 1\right) =\left( 1\right) \left( 1\right) $	⊠NO			
cell tanks				
Equipment/systems/tools use for processing or storage of the material do not	□YES			
come into contact at any time with materials of animal origin (e.g.,				
components of media filler used to check such system)	⊠NO			
The material is not purified by using solvents, chromatographic media or	□YES			
buffers that contain components of animal origin	⊠NO			
We confirm this product complies with:	⊠ EU legislation 999/2001 & ⊠ EP general			
	chapter 5.2.8			
We confirm BSE/TSE statement is available	⊠YES			
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9. Contaminants information	
(according to EU Regulation No 915/2023 and NO.629/2008 as r	egards maximum levels for certain contaminants
in foodstuff)	
●Aflatoxin B1 <5ppb	⊠YES
●Aflatoxins B1 + B2 + G1 + G2 <10ppb	□NO
●Ochratoxin A <15ppb	□NA
●Melamine	⊠YES
For polycyclic aromatic hydrocarbons, in cocoa fibre, banana	⊠YES
chips, food supplements and their preparations, dried herbs <i>and</i>	□NO
dried spices:	□NA
●Maximum level of 10 μg/kg of benzo(a)pyrene	



●50 μg/kg for the sum of PAH4 (PAH4;		
benzo[a]pyrene,chrysene, benz[a]anthracene and		
benzo[b]fluoranthene) in food supplements		
We confirm this product complies with NO.1881/2006 and NO.629	/2008 and keep	⊠YES
compliance statement available		

## 10. Others

We confirm we could meet with the requirement on hygiene of foodstuffs according to Reg 852/2004. We confirm we could meet with the requirement on general principles and requirements of food law according to REGULATION (EC) No 178/2002

11. Amino Acid Profile (Expre protein, as is)	ino Acid Profile (Expressed as g/100g , as is)		12. Protein Profile (%)		
Alanine	2	Alpha-lactalbumin	90 - 96		
Arginine	1.3	Beta-lactoglobulin	3.0 - 5.0		
Aspartic Acid	16.5	Bovine	0.0 - 5.0		
Cysteine	4.6	Glycomacropeptide	Negative		
Glutamic Acid	12.5	Immunoglobulins (IgG)	0 - 2		
Glycine	2.7				
Histidine†	3				
Isoleucine	5.9				
Leucine	10.9				
Lysine	10.5				
Methionine	1				
Phenylalanine	4.1				
Proline	2.7				
Serine	3.7				
Threonine†	4.9				
Tryptophan†	4.9				
Tyrosine	4.5				
Valine	4.4				