

CERTIFICATE OF ANALYSIS

Product and Batch Informations			
SUNFLOWER LIPOSOMIAL VITAMIN C			
<i>VITCLIQ_1002</i>			
Composition	Ascorbic acid (67,5%) Sunflower lecithin (32,5%)		
Batch	NAT20202704	Continent of manufacturing	Europe
MF date	30/12/2020	Expiration date	31/12/2022
ANALYSIS ITEM	SPECIFICATION	RESULT	TEST METHOD
Active Ingredients/Substance to control			
Assay	Vitamin C : NLT 67,5%	67,55%	Volumetric determination
Physical/Chemical Control			
Appearance**	Pale to beige powder	Complies	Visual inspection
Sieve analysis	NLT 90% through 300 microns	Complies	Circular Vibrating Screener
Loss on drying	NMT 8%	Complies	105°C - 3 hours
Contaminant Control*			
Heavy metals	NMT 10ppm	Complies	Atomic absorption
Lead (Pb)	NMT 3ppm	Complies	Atomic absorption
Arsenic (As)	NMT 1ppm	Complies	Atomic absorption
Cadmium(Cd)	NMT 1ppm	Complies	Atomic absorption
Mercury (Hg)	NMT 0,1ppm	Complies	Atomic absorption
Microbiological Control			
Total aerobic microbial	NMT 20 000 cfu/g	Complies	As per Eur.Ph
Tot. yeast and mould	NMT 200 cfu/g	Complies	As per Eur.Ph
ile tolerant gram - bacteria*	NMT 100 cfu/g	Complies	As per Eur.Ph
Salmonella*	Negative/375g	Complies	As per Eur.Ph
E.Coli*	Negative/g	Complies	As per Eur.Ph
Allegations			
Allergens	Allergen FREE / specify if any	Complies	
GMO	No GMOs	Complies	
Irradiation	No irradiation	Complies	
BSE/TSE	BSE/TSE FREE	Complies	
Nanoparticles	Nanoparticle FREE	Complies	
Vegans/vegetarians	Suitable	Complies	
Packing and Storage			
Packing	All requirements for Food Regulation		
Storage	Store in its closed original packaging at room temperature (5-25°C), away from heat, direct light and moisture		

*According to a control plan

**Depending to variations of raw material

ATTESTATIONS - STATEMENTS

According to the manufacturer's declaration and to the European Regulations:

GMOs FREE STATEMENT

- Regulation (EC) No. 1829/2003 of the European Parliament and of the Council of 22 September 2003 on genetically modified food and feed
- Regulation (EC) No. 1831/2003 of the European Parliament and of the Council of 22 September 2003 concerning tractability and labelling on GMOs and tractability of food and feed products produced from GMOs and amending Directive 2001/18/EC

GMOs FREE **Yes** **No**

If no, name and quantity (%):

NON-IRRADIATION STATEMENT

According to the manufacturer's declaration and to the European Directive 1999/2/EC and 1999/3/EC of the European Parliament and of the Council:

NON-IRRADIATION **Yes** **No**

BSE/TSE FREE STATEMENT

According to the manufacturer's declaration:

BSE/TSE FREE **Yes** **No**

NANOMATERIALS FREE STATEMENT

According to the manufacturer's declaration and to the EU Regulation No 1169/2011 of the European Parliament and of the Council of 25 October 2011:

NANOMATERIALS FREE **Yes** **No**

If no, name and quantity (%):

ALLERGENS AND CROSS CONTAMINATION STATEMENT

According to the manufacturer's declaration and to the EU Regulation No 1169/2011 of the European Parliament and of the Council of 25 October 2011, this product is:

ALLERGENS FREE

Yes No (if no see below)

	Present in the product (Yes/No)	Quantity (ppm) In case of presence	Presence of allergen on the production site or on the same production line (On site and supplier site)		
Cereals containing gluten, namely: wheat (such as spelt and khorasan wheat), rye, barley, oats or their hybridised strains, and products thereof (1)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not applicable
Crustaceans and products thereof	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not applicable
Eggs and products thereof	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not applicable
Fish and products thereof (2)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not applicable
Peanuts and products thereof	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not applicable
Soybeans and products thereof (3)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not applicable
Milk and products thereof (including lactose) (4)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not applicable
Nuts, namely: almonds (<i>Amygdalus communis</i> L.), hazelnuts (<i>Corylus avellana</i>), walnuts (<i>Juglans regia</i>), cashews (<i>Anacardium occidentale</i>), pecan nuts (<i>Carya illinoensis</i> (Wangenh.) K. Koch), Brazil nuts (<i>Bertholletia excelsa</i>), pistachio nuts (<i>Pistacia vera</i>), macadamia or Queensland nuts (<i>Macadamia ternifolia</i>), and products thereof (5)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not applicable
Celery and products thereof	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not applicable
Mustard and products thereof	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not applicable
Sesame seeds and products thereof	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not applicable
Sulphur dioxide and sulphites at concentrations of more than 10 mg/kg or 10 mg/litre in terms of the total SO ₂ (6)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not applicable
Lupin and products thereof	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not applicable
Molluscs and products thereof	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not applicable

The risk of cross contamination on site and supplier site is avoided by cleaning procedures.

1) Exceptions: Wheat based glucose syrups including dextrose / Wheat based maltodextrins / Glucose syrups based on barley /Cereals used for making alcoholic distillates including ethyl alcohol of agricultural origin

(2) Exceptions: fish gelatin used as carrier for vitamin or carotenoid preparation / fish gelatin or Isinglass used as fining agent in beer and wine

(3) Exceptions: Fully refined soybean oil and fat / natural mixed tocopherols (E306), natural D-alpha tocopherol acetate, and 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) Exceptions: whey used for making alcoholic distillates including ethyl alcohol of agricultural origin / lactitol

(5) Exceptions: nuts used for making alcoholic distillates including ethyl alcohol of agricultural origin

(6) In terms of the total SO₂ which are to be calculated for products as proposed ready for consumption or as reconstituted according to the instructions of the manufacturers

DOSSIER TECHNIQUE - SPECIFICATION SHEET

LIPOSOMAL VITAMIN C

EUROPEAN FOOD REGULATIONS

According to the manufacturer's declaration, this product is

EUROPEAN REGULATIONS	COMPLIANT		
Contaminants (Regulation 1881/2006/EC)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not applicable
Heavy metals (Regulation 629/2008/EC)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not applicable

FOOD GRADE

According to the manufacturer's declaration, this product is:

STATEMENTS			
Food grade	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not specify
Gluten free (<20mg/kg - Regulation 828/2014)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not analyzed
Suitable for vegetarians	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not specify
Suitable for vegans	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not specify
Halal* (until XX/XX/XXXX)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not specify
Kosher* (until XX/XX/XXXX)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not specify

**Product certified by the supplier. is not certified for halal and kosher products.*

NON-ANIMAL TESTING STATEMENT

According to the manufacturer's declaration and to the European regulations Directive 2003/15/CE and 2003/80/CE:

NON-ANIMAL TESTING	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not specify
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DOSSIER TECHNIQUE - SPECIFICATION SHEET

LIPOSOMAL VITAMIN C

INFORMATIONS SUR LES MATIERES PREMIERES

RAW MATERIAL INFORMATION

VITAMIN C

Product details

Description	Colorless crystals or a white or almost white, crystalline powder which discolors on exposure to air and moisture
Scientific name	<i>L-ascorbic acid</i>
Country of manufacture	China
Chemical formula	C ₆ H ₈ O ₆
Molecular weight	176.13g/mol
Origin	Synthetic (from sorbitol)

Specifications

Identification	Positive reaction
Assay	99.0-100.5%
Melting point	189-193°C
pH of 5% water solution	2.1-2.6
pH of 2% water solution	2.4-2.8
Clarity of solution	Clear
Colour of solution	BY ₇ max
Copper	5mg/kg max
Iron	2ppm max
Oxalic acid	NMT 0.3%
Sulphate ash	NMT 0.1%
Organic volatile impurities	Pass
Specific Optical Rotation	+20.5° - +21.5°
Loss on drying	NMT 0.4%
Lead (Pb)	NMT 2ppm
Arsenic (As)	NMT 3ppm
Mercury (Hg)	NMT 1ppm

DOSSIER TECHNIQUE - SPECIFICATION SHEET
LIPOSOMAL VITAMIN C

SUNFLOWER LECITHIN

Product details

Description	100% Lecithin derived from sunflower seeds (E 322)
Appearance	Light yellow-brownish fine powder

Specifications

AI (acetone insoluble matter/phospholipids)	NLT 97%
HI (hexane insoluble matters/impurities)	NMT 0.3%
Loss on drying	NMT 1.5%
Lead (Pb)	NMT 0.25ppm
Arsenic (As)	NMT 0.2ppm
Mercury (Hg)	NMT 0.1ppm
Total plate count	NMT 1000 cfu/g
Coliforms	NMT 10 cfu/g
E.coli	absence
Salmonella	absence
Yeast and mould	NMT 100 cfu/g