

**SPECIFICATION GINKGO BILOBA EXTRACT (24-6)**

<b>INCI Name</b>	Ginkgo biloba, ext.
<b>EINECS Number</b>	289-896-4
<b>CAS Code</b>	90045-36-6

<b>Botanical Source</b>	Ginkgo Leaf
<b>Description</b>	
<b>Appearance</b>	Light brown fine powder
<b>Odor / Taste</b>	Characteristic
<b>Extract Solvent</b>	Ethanol & Water
<b>Excipient</b>	None
<b>Particle Size</b>	100% Through 80 mesh
<b>Bulk Density</b>	0.30 g/ml ~ 0.50 g/ml
<b>Marker Compounds</b>	
<b>Total Flavone Glycosides</b>	24.00~34.29%
<b>Quercetin</b>	
<b>Kaempferol</b>	
<b>Isorhamnetin</b>	
<b>Total Terpene Lactones</b>	6.00~8.57%
<b>Ginkgolides (A)</b>	
<b>Ginkgolides (B)</b>	
<b>Ginkgolides (C)</b>	
<b>Ginkgolides (J)</b>	
<b>Bilobalides</b>	
<b>Total Ginkgolic Acid</b>	≤5.00ppm
<b>Rutin</b>	≤3.50%
<b>Genistein</b>	≤0.10%
<b>Chemical Test</b>	
<b>Loss on drying</b>	≤ 5.00%
<b>Heavy Metals</b>	≤3.0 ppm
<b>Lead</b>	≤0.5 ppm
<b>Arsenic</b>	≤0.3 ppm
<b>Cadmium</b>	≤0.1 ppm
<b>Mercury</b>	≤0.1 ppm
<b>Benzo(a)pyrene</b>	≤10µg/kg

<b>Sum of PAH4 (Pbenzo[a]pyrene, chrysene, benz[a]anthracene and benzo[b]fluoranthene)</b>	≤50µg/kg
<b>Microbiological test</b>	
<b>Total plate count</b>	≤ 1000 cfu/g
<b>Yeast &amp; Mold</b>	≤ 100 cfu/g
<b>E.Coli</b>	Negative
<b>Salmonella</b>	Negative
<b>Staphylococcus</b>	Negative
<b>Aflatoxins (B1,B2,G1,G2)</b>	≤ 5.0 PPB

## GENERAL PRODUCT INFORMATION

Mesh of the product	80
Taped density	0.55-0.70g/ml
Bulk density	0.50-0.65g/ml
Water solubility	Part soluble in water
Origin (Synthetic, Fermentation)	Extraction
Origin (Animal, Vegetal, etc.)	From ginkgo biloba leaves
Is the product and their ingredients FREE of GLUTEN?	Yes

Ratio (Aproximate) of the Extract	50:1
Solvents Used during the extraction and their %	70% Ethanol & 30% Water
Product is suitable for Vegans	Yes
Product is suitable for Vegetarians	Yes
Product is free of fructose	Yes
Is this product suitable for food?	Yes
Can be the product used in baby food (According to Directive 2006/141/CE)?	No
Has been sold this product in the EU before May 1997?	Yes
Drug indication	Ginkgo Biloba leaf improving memory, cardiovascular disease
Melting Point	N/A
Country of the raw material/s	China
Storage conditions (In the warehouse)	Store in cool and dry place, keep away from strong light and heat

## TECHNICAL PRODUCT INFORMATION

Raw materials used and their function	Ginkgo Biloba leaf
Frequency of analysis of each contaminant?	Every batch
Frequency of analysis of microbiology?	Every batch, Every batch
Frequency of analysis of each heavy metals?	Every batch, Every batch

## FOREIGN BODIES

Explanation about control of the foreign bodies during the manufacturing process:

Metal detector	Yes	The outer packing stage
Sieve	Yes	Sieving and crushing process
Filter	Yes	After extraction process
X-Ray	No	
Other	No	

## INGREDIENTS

In accordance with the Directive 2003/89/EC We confirm this is the ingredients and their content in %

Ginkgo biloba 100%

## BSE/TSE

The product does not contain and is not derived from Specified Risk Material as defined in Commission Directive European and it is conform to the EU legislation relating to the risk of Transmission of Spongiform Encephalopathy (TSE).

## GMO

Following EU regulations have been published in the Official Journal of the European Union:

- Regulation (EC) No.1829/2003 of the European Parliament and the Council of 22nd September 2003 on genetically modified food and feed

- Regulation (EC) No.1830/2003 of the European Parliament and the Council of 22nd September 2003 concerning tractability and labeling on genetically modified organisms and tractability of food and feed products produced from genetically modified organisms and amending Directive 2001/18/EC.

This product has not been genetically modified so there is no obligation of GMO labeling as defined by the above-mentioned regulations.

## NON-IRRADIATION/NON-IONIZED

According to directives 1992/2/EC and 1999/3/EC, we confirm is not made from irradiated/ionized raw materials or was irradiated/ionized the product.

## PESTICIDES

To our actual knowledge of production process, raw materials and equipment used potential pesticide residues in the above-mentioned product comply with the European legislation on pesticide residues, esp. Regulation (EC)None.

396/2005. However, we do no test for pesticide residues on a routine basis.

## RESIDUAL SOLVENTS

The product meets with:

- DIRECTIVE 2009/32/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 23 April 2009 on the approximation of the laws of the Member States on extraction solvents used in the production of foodstuffs and food ingredients

- DIRECTIVE 2010/59/EU of 26 August 2010 amending Directive 2009/32/EC of the European Parliament and of the Council on the approximation of the laws of the Member States on extraction solvents used in the production of foodstuffs and food ingredients.

## CONTAMINANTS

The product is in accordance and meets with the commission regulation (EC) No.629/2008 of 2 July 2008 amending regulation (EC) No.1881/2006 setting maximum levels for certain contaminants in foodstuffs.

## PCBS and MELAMINE

The product is in accordance and meets with the commission regulation (EU) No.594/2012 of 5 July 2012 amending regulation (EC) No.1881/2006 as regards the maximum levels of the contaminants Ochratoxin a, non-dioxin-like PCBS and melamine in foodstuffs.

## ANTI-DOPING

As per the list of 2012 of the world anti-doping agency the ingredient is not a doping substance and not a combination of doping substances. The ingredient does not contain any doping substance. The ingredient does not result from a doping substance.

As per the list of 2016 of the world anti-doping agency the ingredient is not a doping substance and not a combination of doping substances. The ingredient does not contain any doping substance. The ingredient does not result from a doping substance.

## NANOMATERIALS

According to the the definition of 'nanomaterials' of the UE REGULATION (EU) No 1169/2011 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 25 October 2011 on the provision of food information to consumers, we hereby attest that no nanomaterials are used in the formulation nor in the packaging materials of our product.

## PACKING

We confirm that the packing used is in compliance with:

- Commission Directive 2002/72/EC of 6 August 2002 relating to plastic materials and articles intended to come into contact with foodstuffs.
- Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC
- Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food.

## ALLERGENS

In accordance with the Directive 2003/89/EC and Council amending Directive 2000/13/EC and taking Directive 2005/26/EC, Directive 2005/63/EC and Directive 2006/142/EC of 22.12.2006 into consideration. We confirm the following information:

Note: Does the raw material CONTAIN or is it DERIVED from or could it be CROSS CONTAMINATED by any of the following.

Cereals containing gluten (i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strains) and products thereof	No
Crustaceans and products thereof	No
Eggs and products thereof	No
Fish and products thereof	No
Peanuts and products thereof	No
Soybeans and products thereof	No
Milk and products thereof (including lactose)	No
Nuts (i.e. Almond, Hazelnut, Walnut, Cashew, Pecan nut, Brazil nut, Pistachio nut, Macadamia nut and Queensland nut and products thereof)	No
Celery and products thereof	No
Mustard and products thereof	No
Sesame seeds and products thereof	No
Sulphur dioxide and sulphite at concentrations of more than 10 mg/kg or 10 mg/l expressed as SO <sub>2</sub>	No
Lupine and products thereof	No
Molluscs and products thereof	No

## ALBA LIST (ALLERGENS)

When it is written 'No' means that there is no contamination in:

Contain in recipe, handled on same production line or Handled at same side.

Where: 1) Contain in recipe 2) Handled on same production line 3) Handled at same side.

	Cross contamination (mg/kg)?	Where?
Cow milk protein	No	-
Lactose	No	-
Chicken egg	No	-
Soya protein	No	-
Soya oil	No	-
Gluten	No	-
Wheat	No	-
Rye	No	-
Cattle	No	-
Pork	No	-
Chicken	No	-
Fish	No	-
Shellfish and Crustaceae	No	-
Corn	No	-
Cocoa	No	-
Leguminous plants	No	-
Nuts	No	-
Nut oil	No	-
Peanut	No	-
Peanut oil	No	-
Sesame	No	-
Sesame oil	No	-
Glutamate	No	-
Sulphide (E220 to E228)	No	-
Coriander	No	-
Celery	No	-
Carrot	No	-
Lupines	No	-

## RESIDUE LIMITS

For the products/s mentioned above We herewith certify that the ingredient mentioned is in compliance with commission regulation (EU) 2016/355 of 11 March 2016 amending Annex III to regulation (EC) No. 853/2004 of the European parliament and of the council as regards the specific requirements for gelatin, collagen and highly refined products of animal origin intended for human consumption.

## HYGIENE OF FOODSTUFFS

For the products/s mentioned above We herewith certify that the production complies with regulation (EC) No. 852/2004 of the European parliament on the hygiene of foodstuffs and all its amendments.

#### FULL TRACEABILITY

For the products/s mentioned above We herewith the full traceability as mentioned in regulation (EC) No. 178/2002 of the European parliament and of the council of 28 January 2002 laying down the general principles and requirements of food law, establishing the European food safety authority and laying down procedures in matters of food safety.

#### FACTORY ACCREDITATIONS/CERTIFICATIONS

ISO 9001	Yes
ISO 14001	No
ISO 22000	Yes
HACCP	Yes
GMP	No
FAMI QS	Yes
Other accreditations/certifications	Kosher, Halal

#### NON-ANIMAL TESTING

We certify that the product has not been tested on animals for cosmetic purposes.