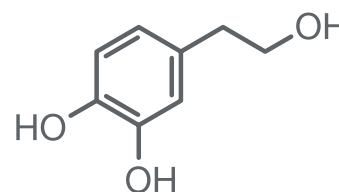


POLYPHENOL-HT1® CI POWDER LYOPHILIZED



Description

- **Polyphenol - HT1® CI - Powder** is a biologically produced pure hydroxytyrosol which is freeze-dried with chicory root soluble (chicory inulin) yielding a fine white to off-white powder containing 25% hydroxytyrosol and 75% chicory root soluble (chicory inulin) with neutral odor.
- **Polyphenol - HT1® CI - Powder** is manufactured by a simple fermentation process in compliance with Good Manufacturing Practice (GMP).
- The hydroxytyrosol is a phenolic phytochemical, considered to be one of the most powerful natural antioxidants.

Parameter	Limit	Unit	Method ¹	Frequency
Hydroxytyrosol (purity ≥98%)	≥ 25.0	g / 100 g	HPLC	Each batch
Inulin (chicory root) - excipient	≤ 75.0	g / 100 g	By weight	Each batch
Dry matter (d.m.)	≥ 98.5	g / 100g	ISTISAN 1996/34 MET B	Each batch
Moisture	≤ 1.5	g / 100 g	ISTISAN 1996/34 MET B	Each batch
pH (0.5 M hydroxytyrosol in water)	4.0 - 5.0	-	pH meter	Each batch
Arsenic	< 0.1	mg / kg	ICP-MS	Each batch
Lead	< 0.1	mg / kg	ICP-MS	Each batch
Mercury	< 0.1	mg / kg	ICP-MS	Each batch
Cadmium	< 0.1	mg / kg	ICP-MS	Each batch
Cobalt	< 0.1	mg / kg	ICP-OES	Each batch
Ethyl acetate	< 250	mg / kg	GC-MS Head space	Each batch

¹ Acknowledged or similar validated method

Microbiological Parameters

Parameter	Limit	Unit	Method ¹	Frequency
Total aerobic plate count	< 10	cfu / g	AOAC 990.12	Each batch
Yeast and mold count	< 10	cfu / g	AOAC 997.02	Each batch
<i>Enterobacteriaceae</i>	Negative	/ 10 g	AOAC 2003.01	Each batch
Coliform	Negative	/ 10 g	AOAC 991.14	Each batch
<i>Escherichia coli</i>	Negative	/ 10 g	AOAC 991.14	Each batch
<i>Salmonella species</i>	Negative	/ 25 g	ISO 6579-1:2017	Each batch
GMO	Negative	-	Q-PCR	Each batch

¹ Acknowledged or similar validated method

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Key features of a unique product

- Biologically produced and highly controlled process (GMP)
- Hydroxytyrosol purity: ≥ 98%
- No batch-to-batch or seasonal variations
- Highly water soluble
- Odorless
- GMO free
- "Free-From": Animal Fat, Lactose, Gluten, Sugar and Endotoxin
- ORAC assay: > 64,000 μmol TE (Trolox[®]™ Equivalent) / g of **Polyphenol - HTI[®]**

Main Sectors of Application

Functional Nutrition and Nutraceuticals

Sports Nutrition

Dietary Supplements

Functional Cosmetics & Nutricosmetics

Additional Information			
Brand	Polyphenol - HTI[®] CI - Powder Lyophilized	Appearance	Off-white powder
		Behaviour	Free flowing and hygroscopic
Product name	Hydroxytyrosol lyophilized (25% hydroxytyrosol - 75% inulin (chicory root))	Taste	Slightly bitter
		Odor	Odorless
CAS No.	10597-60-1 hydroxytyrosol	Solubility in water	Approximately 50 g / L at +25° C (+77° F)
CAS No.	9005-80-5 inulin		
Packaging	A net quantity of 50 g (1.76 oz) Polyphenol - HTI[®] - Powder is packed in a nitrogen-flushed, 3-layered sachet. A total of 8 sachets are packed in a cardboard case, providing a total net quantity of 400 g (14.10 oz).		
Recommended conditions	Transport preferably in a dry space between +15° to +25° C (+59° - +79° F). Storage. Once the product has reached customer facilities, store in a refrigerator between +4° to +8° C (+39° to +46° F). Once opened, protect the powder from oxidizing atmosphere.		
Shelf Life	3 years from date of production under recommended storage conditions.		
Feed Processing Conditions	Polyphenol - HTI[®] added to DI water was stable at pasteurization (+85° C / +185° F for 10 minutes) and sterilization (121° C / 248° F for 30 minutes) conditions. Polyphenol - HTI[®] is stable in different feed matrices during storage at room temperature.		
Safety precautions	Polyphenol - HTI[®] is a fine powder and can cause dust explosions when mixed with air (typical for powder). Comprehensive instruction will be available from the Material Safety Data Sheet supplied.		
Certificate and Compliance	Polyphenol - HTI[®] is manufactured in the EU, under GMP industrial standards in an FDA and EU approved plant. Polyphenol - HTI[®] is HALAL certified (915687-IR-9102).		