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NUTRATRADE S.r.l.		**Certificate of analysis**	
Name **Saffron Extract**		BOTANICAL SOURCE: **CROCUS SATIVUS L.**	
Issued by	*QA*	Approved by	*Riccardo Cultraro*
Manufacturing date: **01/08/2025**	Best Before: **31/07/2027**	Batch number: **2025080116**	

Product Name	Saffron Extract	**Family/Genus/Species**	Iridaceae/ Crocus/ C.sativus
Plant Part	Flower	**Solvent Used**	100% Water
Origin	China	**Grade**	Food ☒ Feed ☐ Pharma ☐
Part No.	1.100-094.0	**Shelf life**	24 months when properly stored
Quantity	1kg		
Packing	Paper-drums and two plastic-bags inside, food contact material compliant with EC Reg. 1935/2004 and EU Reg. 10/2011	**Storage**	Store in cool & dry place. Do not freeze. Keep away from strong light and heat.

Analysis Item	**Specification**	**Method**	**Result**
Assay	NA	NA	NA
DER	4:1	NA	4:1

Chemical and Physical Characteristics			
Analysis Item	**Standard value**	**Method**	**Result**
Appearance	Fine powder	Visual	Conform
Color	Yellow	Visual	Conform
Odor& Taste	Characteristic	Organoleptic	Conform
Identification	Positive	TLC	Conform
Excipient	15% maltodextrin	NA	Conform
Loss on drying	≤5.0%	Ph.Eur.9.0<2.2.32>	2.44%
Total ash	≤5.0%	Ph.Eur.9.0<2.4.16>	2.63%
Solubility in Water	NA	Organoleptic	NA
Solubility in oil	NA	NA	NA
Apparent density	NA	Eur.Ph.<2.9.34>	NA
Tapped density	NA	NA	NA
Sieve analysis	100% through 80 mesh	USP39<786>	Conform
Arsenic (As)	NMT 1 ppm- Reg.EU 2023/915	Ph.Eur.9.0<2.2.58>ICP-MS	Conform
Cadmium (Cd)	NMT 1 ppm- Reg.EU 2023/915	Ph.Eur.9.0<2.2.58>ICP-MS	Conform
Lead (Pb)	NMT 3 ppm- Reg.EU 2023/915	Ph.Eur.9.0<2.2.58>ICP-MS	Conform
Mercury (Hg)	NMT 0.1 ppm - Reg.EU 2023/915	Ph.Eur.9.0<2.2.58>ICP-MS	Conform
Heavy Metals	NMT 10 ppm- Reg.EU 2023/915	Ph.Eur.9.0 <2.4.8>	Conform
Pesticides Residues	Conform Reg.(EC) .396/2005 and amendments.	Gas Chromatography	Conform
Solvent Residues	Conform Eur.Ph. 9.0 <5,4 > and EC Dir. 2009/32	Ph.Eur.9.0<2.4.24>	Conform
Hydrocarbons PAHs	≤ 50 ppb -Reg.EU 2023/915	GC-MS	Conform
Benzo(a)pyrene	≤ 10 ppb -Reg.EU 2023/915	GC-MS	Conform
Radioactivity	≤ 600 Bq/Kg -Reg. EC 2020/1158	NA	Conform
Aflatoxin B1	≤ 5 ppb - Reg.EU 2023/915	Ph.Eur.9.0<2.8.18>	Conform
Aflatoxins Σ B1, B2, G1, G2	≤ 10 ppb - Reg.EU 2023/915	Ph.Eur.9.0<2.8.18>	Conform

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Microbiological Characteristics			
Total aerobic Count	≤1000 cfu/g	Ph.Eur.9.0<2.6.12>	Conform
Yeast/Moulds	≤100 cfu/g	Ph.Eur.9.0<2.6.12>	Conform
Enterobacteriaceae	≤100 cfu/g	Ph.Eur.9.0<2.6.31>	Conform
Escherichia coli	Absent in 1 g	Ph.Eur.9.0<2.6.31>	Conform
Salmonella spp.	Absent in 25 g	Ph.Eur.9.0<2.6.31>	Conform
Listeria monocytogenes	Absent in 25 g	Ph.Eur.9.0<2.6.31>	Conform
Staphylococcus aureus	Absent in 1 g	Ph.Eur.9.0<2.6.31>	Conform

Other product characteristics		
Irradiation	No Irradiation	Conform
GMO	Product No-GMO (Reg.1829/2003-1830/2003 EC)	Conform
Allergens	Allergen free (Reg. EU 1169/2011 Annex II)	Conform
Food Additives	Free (Reg. EU 1333/2008 and amendments)	Conform
BSE/TSE	Free, the product doesn't contain animal materials	Conform
Melamine	Free, No melamine (Reg.EU 2023/915)	Conform
Pyrrolizidine alkaloids	In compliance with Reg.EU 2023/915	Conform
Nanomaterials	Absent in compliance with Reg CE 1169/2011	Conform
Ethylene oxide	No Ethylene oxide	Conform
Suitable for Vegan	Yes	Conform