


CERTIFICATE OF ANALYSIS

Date of issue	14-Nov-2018		
Product name	Organic Spirulina Powder		
Product code	12600		
Organic registration no.	DE-ÖKO-039 VG 840-004  <small>DE-ÖKO-039 Nicht-EU-Landwirtschaft</small>		
Batch no.	WE18110047		
Reference no.	O.SP-JY-180722		
Manufacturing date	22-Jul-18		
Expiry date	21-Jul-21		
Storage conditions	Store in well closed container and in dry and cool place		
Botanical source	<i>Arthrospira platensis</i>		
Country of origin	China		
Parameter	Specification	Result	Test method
Appearance	Fine green powder	Complies	Visual determination
Taste	Mild, like seaweed	Complies	Organoleptic
Protein	≥ 60.0 %	64.8 %	Kjeldahl nitrogen method
Water	≤ 7.0 %	6.57 %	Drying method
Ash	≤ 8.0 %	6.59 %	Ashing method
Lead (pb)	≤ 3.0 ppm	0.47 ppm	DIN EN ISO 17294
Arsenic (as)	≤ 1.0 ppm	0.35 ppm	DIN EN ISO 17294
Cadmium (cd)	≤ 1.0 ppm	0.10 ppm	DIN EN ISO 17294
Mercury (hg)	≤ 0.1 ppm	0.015 ppm	DIN EN 15763
Mesh	120 mesh	120 mesh	Sieve
Microcystin-LA, -LF, -LR, -LW, -RR, -YR	≤ 1 mg/kg	< 0.1 mg/kg	LC MS/MS, PA 554
Benzo(a)pyrene	< 5 µg/kg	0.8 µg/kg*	GC-MS
Sum of PAH 4	< 25 µg/kg	9.5 µg/kg*	GC-MS
Organo nitrogen pesticides		n.d.*	GC-MS
Organochlorine pesticides and pyrethroide		n.d.*	GC-ECD
Organophosphorus pesticide		n.d.*	GC-FPD
SO ₂	≤ 10 mg/kg	6.0 mg/kg*	Titration
Microbiology			
Total plate count	≤ 1.0 x 10 ⁵ cfu/g	6700 cfu/g*	ISO 4833-2
Enterobacteriaceae	≤ 1.0 x 10 ³ cfu/g	< 10 cfu/g*	ISO 21528-2

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Yeast		< 100 cfu/g*	ISO 21527-1
Moulds	$\leq 1.0 \times 10^4$ cfu/g	< 100 cfu/g*	ISO 21527-1
E. coli	Negative /g	N.d.*	§ 64 LFGB L 01.00-02/-025
Salmonella	Negative /25g	N.d.*	DIN EN ISO 6579-2007
(*) Tested by German lab acc.			
Manufacturer certifies:			
Food grade	Product is apt for human consumption.		
Irradiation	Product has not been treated with ionizing radiation and does not contain any ingredients which have been treated with ionizing radiation.		
GMO	Product does not contain or consist of GMO's and is not produced from or does not contain ingredients produced from GMO's according to Regulation (EC) No. 1829/2003. Product does not require GMO-labelling according to Regulations (EC) No. 1829/2003 and 1830/2003.		
Contaminants	Product is in accordance with Regulation 1881/2006/EC.		
PAH	Product is in accordance with CERES Policy on Organic Micro-Algae		
Pesticides	Product complies with Regulation (EC) 396/2005 and its modifications.		
Vegan	Product is suitable for vegan consumption.		
Natural	Product is 100% of natural origin.		
Packing	All used packing materials comply with Regulation (EC) 10/2011 as well as in Regulation 1935/2004, both as amended.		