

CERTIFICATE OF ANALYSIS

Item name	Hydrolized Collagen Peptides B 2000 LD	Production Date	April 2022
Batch Number	3146919	Best Before Date	April 2027

Parameters	Methods	Specifications	Values
Molecular Weight (Mw) (*)	Ext Lab	2000 Da	Compliant
Protein content(*)	Ext Lab	≥90%	Compliant
Viscosity (20%, 25°C)	W-ANGL-FR-10149	2.0-4.0 mPa.s	3.5 mPa.s
pH	W-ANGL-FR-10097	5.0-6.5	6.1
Loss on Drying	W-ANGL-FR-10147	≤10.0%	6.8%
Residue on ignition	W-ANGL-FR-10092	≤2.0%	0.7%
Color	W-ANGL-FR-10100	≤3.50	3.00
Turbidity	W-ANGL-FR-10101	≤10.0 NTU	4.9 NTU
Bellow 1000 μm (mesh#18) (*)	W-ANGL-FR-10170	≥95	≥95
Bellow 75 μm (mesh#200) (*)	W-ANGL-FR-10170	≤10	≤10
Density	W-ANGL-FR-10172	0.25-0.39 g/cm ³	0.39 g/cm ³
Sulfites (SO ₂) (*)	Ext Lab	≤10 mg/kg	≤10 mg/kg
Peroxides	W-ANGL-FR-10681	≤10 mg/kg	≤10 mg/kg
Arsenic (As) (*)	Ext Lab	≤1.0 mg/kg	≤1.0 mg/kg
Cadmium (Cd) (*)	Ext Lab	≤0.5 mg/kg	≤0.5 mg/kg
Chromium (Cr) (*)	Ext Lab	≤10 mg/kg	≤10 mg/kg
Copper (Cu) (*)	Ext Lab	≤30 mg/kg	≤30 mg/kg
Mercury (Hg) (*)	Ext Lab	≤0.10 mg/kg	≤0.10 mg/kg
Lead (Pb) (*)	Ext Lab	≤3.0cfu/g	≤3.0cfu/g
Zinc (Zn) (*)	Ext Lab	≤50 mg/kg	≤50 mg/kg
Total Aerobic Microbial Count	W-ANGL-FR-10039	≤1000cfu/g	≤1000cfu/g
E.coli	W-ANGL-FR-10059	Absent in 10g	Absent in 10g
Salmonella	W-ANGL-FR-10042	Absent in 25g	Absent in 25g
Anaerobic sulfite-reducing spores	W-ANGL-FR-10044	≤10cfu/g	≤10cfu/g

(*) Part of monitoring plan.

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①

This product meets the requirements of the European Regulations (EC) N°853/2004 and N°2073/2005 and all latest modifications.
This product meets the requirements of the European Regulation (EC) N°629/2008 on contaminants (dietary supplements) and all latest modifications.

CERTIFICATE OF ANALYSIS

Item name	SODIUM ASCORBATE E301	Batch number	210233008
Formula	$C_6H_7O_6Na$	Production date	Sep, 2021
Type	For food industry	Best before end	Aug, 2023

Items	Guaranteed parameters	Results
Appearance	White or yellowish crystal powder	Conforms
Assay	99.0-101.0%	99.61%
Specific rotation	+103°~+106°	+105.61°
Ascorbates test	Positive result	Positive result
Na presence test	Positive result	Positive result
PH 10% solution	7.0-8.0	7.65
Loss on drying	<0.25%	<0.08%
Heavy metals	<10 mg/kg	<10mg/kg
Oxalic Acid	<0.2%	<0.2%
Copper (Cu)	<5mg/kg	<5mg/kg
Iron (Fe)	<2mg/kg	<2mg/kg
Arsenic (As)	<3mg/kg	<3mg/kg
Lead (Pb)	<2mg/kg	<2mg/kg
Mercury (Hg)	<1mg/kg	<1mg/kg
Volatile organic impurities	In conformity with a standard	Conforms
Sieve through 20 mesh	100%	Conforms
Sieve 100 mesh	<45%	Conforms
Total plate count	<500 cfu/g	<500 cfu/g
Yeast and moulds	<100 cfu/g	<100cfu/g
E.coli in 1g	Absent	Absent
Salmonella in 25g	Absent	Absent
Staphylococcus aureus	Absent	Absent
Pseudomonas aeruginosa	Absent	Absent
Norm	BP/USP/EP/FCC	BP/USP/EP/FCC
Eu Number	E301	E302

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CERTIFICATE OF ANALYSIS

Item name	Chondroitin Sulfate Bovine	Manufacture date	Nov 2021
Batch number	20211108	Expiry date	Nov 2023

Items	Specification	Results/Method
Description	White or almost white, hygroscopic powder	Complies
Particle size	100% through 80mesh	Complies
Solubility	Freely soluble in water, practically insoluble in acetone and in ethanol (96%)	Complies
Chondroitin Content	Min 90% by CPC	91.05%
	Min 90% by HPLC	90.74%
Identification	A: I.R. spectrum	Positive
	B: Sodium reaction	Positive
	C: Electrophogram	Complies
Clarity	≤0.35	Complies
pH	5.5-7.5	6.5
Chloride	≤0.5%	Complies
Specific Rotation	-20° - -30°	-23.3°
Heavy Metals	≤20ppm	Complies
Arsenic	<1ppm	Complies
Lead	<3ppm	Complies
Cadmium	<1ppm	Complies
Mercury	<0.1ppm	Complies
Related Substances by Electrophoresis	≤2%	Complies
Protein	≤6.0%	3.15%
Loss on Drying	≤12.0%	9.38%
Residue on ignition	20%-30%	22.4%
Total viable aerobic count	≤1000cfu/g	400cfu/g
Yeas and Molds	≤100cfu/g	40cfu/g
E.coli	Negative	Complies
Salmonella	Negative	Complies
Staphylococcus Aureus	Negative	Complies
Enterobacteriaceae	Negative	Complies

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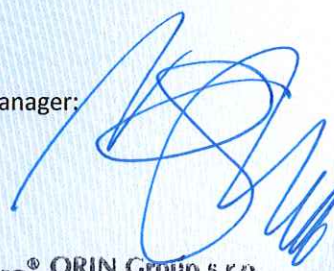
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CERTIFICATE OF ANALYSIS

Item name	Malic Acid Fine Granular	Production date	Jan 11, 2022
Batch number	SFU222011F	Expired date	Jan 11, 2025
Control/Certificate	790000628185/3000150392	Item number	37318F

Method	Value	Limit lower	Limit higher
Fumaric acid	0,63 %	0,00w/w	1,00w/w
Maleic acid	0,02 %	0,000w/w	0,050w/w
Through 25 mesh (710µm)	100,00 %	99,0w/w	100,0w/w
Through 100 mesh (150µm)	0,20 %	0,0w/w	5,0w/w
Appearance crystals	White or nearly white crystals	-	White to nearly white
IR identity	conform to std	-	Conform to std
Specific rotation at 25°C	-0.10° ÷ +0.10°	-	-0.10° ÷ +0.10°
MALATE TEST	Passes test	-	Passes test
Melting range	128° ÷ 132°	-	128° ÷ 132°
Mercury	<1ppm	-	<1ppm
Water insoluble matter	<0,1%	-	<0,1%
Heavy metals as Pb	<20ppm	-	<20ppm
Arsenic	<3ppm	-	<3ppm
Lead	<2ppm	-	<2ppm
Teste and odor	Characteristic	-	Characteristic
Assay	99.71%	99,00w/w	100.50w/w
Sulphated ash	<0,1%	-	< 0,1%

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CERTIFICATE OF ANALYSIS

Item name	Orange Flavour Powder 14636	Inspection date	Jun 13, 2022
Batch number	12220684	Expiry date	Jul 05, 2023

Items	Specification	Results
Appearance	According to specifications	-
Taste/odour	According to specifications	-

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CERTIFICATE OF ANALYSIS

Item name	Beta-Carotene	Lot Number	5789130
		Manufacture date	Mar 08, 2022
Sensient Item Number	409310-0010	Best Before date	Aug 30, 2023
Test description	Min Value	Max Vaue	Test Value
Colour intensity	23.5	26	24.96
Dye content	0.94%	1.04%	0.998%
Water content (Karl Fischer)		≤5%	1.0%
PH 10%	3	4	3.7
Total plate count		≤1000cfu/g	<10cfu/g
Yeast		≤100cfu/g	<10cfu/g
Mould		≤100cfu/g	<10cfu/g
Enterobacteriaceae in 1g		Negative	Negative
Salmonella	Negative in 375g		
Arsenic (As)	≤ 1mg/kg		
Lead (Pb)	≤ 1mg/kg		
Mercury (Hg)	≤ 1mg/kg		
Cadmium (Cd)	≤ 1mg/kg		

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CERTIFICATE OF ANALYSIS

Item name	MethylSulfonylMethane (MSM)	Batch number	20210515
		Manufacture date	May 15, 2021
Test standard	USP42	Expiration	May 14, 2025

Items	Specification	Result	Method
Assay	98.0%-102.0%	99.94%	USP42<621>
Chromatographic Purity	≥99.8%	99.91%	
DMSO Content	≤0.1%	Free	USP42<621>
Appearance	White crystalline	White crystalline	
Odor	Odorless	Odorless	
Melting Point	108.5-110.5°C	108.°C	USP42<741>
Bulk Density	>0.65g/ml	0.69g/ml	
Water Content	<0.10%	009%<3p	USP42<921>
Heav Metals (as Pb)	<3ppm	<3pp	USP42<231>
Lead (Pb)	<0.1ppm	<0.1ppm	USP42<231>
Arsenic (As)	<0.1ppm	<0.1ppm	USP42<231>
Cadmium (Cd)	<0.1ppm	<0.1ppm	USP42<231>
Mercury (Hg)	<0.1ppm	<0.1ppm	USP42<231>
Residue on ignition	<010%	0.01%	USP42<281>
Coliform	Negative	Negative	USP42<2021>
E.coli	Negative	Negative	USP42<2022>
Yeast and mold	<10cfu/g	<10cfu/g	USP42<2021>
Salmonella	Negative	Negative	USP42<2021>
Standard Aerobic Plate Count	<10cfu/g	<10cfu/g	USP42<2021>
Total Plate Count	<1000cfu/g	<1000cfu/g	USP42<2021>
Particle Size	40-80msh	Conform	

Conclusion: Qualified.

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Item name	Hydrolized Collagen Peptides Ilm B LD	Production Date	Jul, 2021
Batch Number	2992823	Best Before Date	Jul, 2024
Tests	Specifications	Values	Units
Molecular Weight (Mw)	1,500-3,000	Compliant	Da
Collagen content	55-70	Compliant	%
Chondroitine sulfate	≥12	≥12	%
GaGs	12-25	12-25	%
Viscosity (20%-25°C)	8.0-13.0	12.9	mPa.s
pH (55°C, 6.67%)	5.0-6.5	6.1	
Loss on drying (105°C, 17h)	≤10	6.8	%
Residue in ignition (550°C)	≤10.0	6.7	%
Sulfites (as SO ₂)	≤10	≤10	ppm
Peroxides (H ₂ O ₂)	≤10	≤10	ppm
Arsenic (As)	≤1.0	≤1.0	ppm
Cadmium (Cd)	≤0.5	≤0.5	ppm
Chromium (Cr)	≤10	≤10	ppm
Copper (Cu)	≤30	≤30	ppm
Mercury (Hg)	≤0.10	≤0.10	ppm
Lead (Pb)	≤1	≤1	ppm
Zinc (Zn)	≤50	≤50	ppm
Total Aerobic Microbial Count	≤1,000	≤1,000	cfu/g
Total yeast and moulds count	≤100	≤100	cfu/g
E.coli	Absence in 10g	Absence in 10g	
Salmonella	Absence in 25g	Absence in 25g	
Anaerobic sulphite-reducing spores	≤10	≤10	cfu/g

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This product meets the requirements of the European Regulations (EC) N°853/2004 and N°2073/2005 and the European Regulation (EC) N°629/2008 on contaminants (dietary supplements).

CERTIFICATE OF ANALYSIS

Item name	Sodium Hyaluronate	Manufacture date	Dec 23, 2021
		Analysis date	Dec 23, 2021
Batch number	HA20211228	Expiry date	Dec 22, 2024

Items	Specification	Results
Appearance	White or almost white powder or granule	Complied
Infrared absorption	The infrared absorption spectrum should be consistent with the Control spectrum	Complied
Particle size	80 mesh	80 mesh
Sodium salt identification reaction	Should show the positive reaction of sodium salt	Complied
Glucuronic acid content	≥46.0%	46.99%
Sodium Hyaluronate content	≥95.0%	97.15%
Average molecular weight	(1.0-1.5)×10 ⁶ Dalton	1.235*10 ⁶ Dalton
Absorbance	≤ 0.01	Complied
Transparency	≥99.0%	100,00 %
Intrinsic viscosity value	17.2-23.6	10.31%
Dry weight loss	≤7.0%	6.67%
pH	6.0-7.5	6.22
Chlorides	≤0.5%	<0.5%
Iron	≤80ppm	<80ppm
Nucleic acids	≤0.5%	Complied
Bulk density	0.3-0.6g/cm ³	0.341g/cm ³
Residue on ignition	≤20.0%	16.05%
Lead (Pb)	≤1mg/kg	0.071 mg/kg
Arsenic (As)	≤2mg/kg	0.14 mg/kg
Mercury (Hg)	≤0.1mg/kg	0.004 mg/kg
Chromium (Cr)	≤1mg/kg	0.015 mg/kg
Heavy metals	≤10mg/kg	<10 mg/kg
Protein content	≤0.10%	0.044%
Total colony number	≤100CFU/g	<10CFU/g
Fungi and Yeast	≤10 CFU/g	<10 CFU/g
Salmonella	Negative in 25g	Negative in 25g
E.coli	Negative in 1g	Negative in 1g
Viable Hemolytic Streptococci	Negative in 1g	Negative in 1g
Staphylococcus Aureus	Negative in 1g	Negative in 1g
Pseudomonas Aeruginosas	Negative in 1g	Negative in 1g

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CERTIFICATE OF ANALYSIS

Item name	Stevia Leaf extract	Manufacture date	Feb 10, 2021
Shelf life	2 years if sealed and store away from direct sun light.	Analysis date	Feb 19, 2021
Botanic name	Stevia rebaudiana (Bertoni)	Batch number	20210201
GMO status	Non-GMO	Plant part	Leaf
Allergen status	Non-Allergen	BSE/TSE free	Yes
		Gluten free	Yes

Items	Specification	Results	Test method
Assay	Rebaudioside A≥98.0%	98.53%	GB8270-1999
	Total Steviol glycosides: ≥99.0%	99.51%	GB8270-1999
Identification	Positive	Conforms	TLC
Appearance	White fine powder	Conforms	Visual
pH	4.5~7.0	5.01%	CP2015
Other related Steviol Glycosides	≤3.0%	0.43%	CP2015
Loss on drying	≤4.0%	1.22%	5g/105°C/2hours
Ash	≤ 0.1%	0.08%	2g/505°C/3hours
Absorbance	≤0.026%	0.009	CP2015
Sweetness	≤450	440	CP2015
Arsenic	≤0.1ppm	Conforms	Atomic Absorption
Cadmium	≤0.1ppm	Conforms	Atomic Absorption
Lead	≤0.1ppm	Conforms	Atomic Absorption
Mercury	≤0.1ppm	Conforms	Atomic Absorption
Heavy metals	≤1ppm	Conforms	Atomic Absorption
Residual solvents	Methanol: ≤200ppm	20ppm	GC
	Ethanol: ≤5000ppm	600ppm	GC
Residual pesticides	Meets the requirements	Conforms	USP40
BAP	≤10ppb	Conforms	EP 8.0
PAHs	≤50ppb	Conforms	EP 8.0
Total plate count	≤1000cfu/g	Conforms	AOAC
Yeast ant molds	≤100cfu/g	Conforms	AOAC
E.coli	Negative	Conforms	AOAC
Salmonella	Negative	Conforms	AOAC

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Store in a well-closed container away from moisture
Packed in paper-drums and two plastic-bags inside. 25kg/drum.
Country of origin: P.R. China

CERTIFICATE OF ANALYSIS

Item name	Vitamin A palmitate powder	Batch number	20080220329
Specification	500,000IU/g	Manufacture date	Mar 29, 2022
CAS Number	79-81-2	Best used before	Mar 28, 2024

Items	Specification	Results	Methods
Description	Pale yellow free-flowing powder, no Foreign objects visible, No foreign matter and no odor	Conforms	Visual
Identification	The retention time of the principal peak Conforms to which in the Reference solution.	so	HPLC
Particle size	100% pass through sieve 40 mesh ≥90% pass through sieve 80 mesh	100% 94.8%	USP<786> Ph.Eur.2.9.12
Vitamin A palmitate assay	≥500,000IU/g	544.000IU/g	UV-Vis
Loss on drying	≤5.0%	3.9%	USP<731>Ph.Eur.2.2.32
Heavy metals (as Pb)	≤10ppm	Conforms	USP<231>II Ph.Eur.2.4.8.
Lead (Pb)	≤2ppm	0.0561ppm	USP<251>Ph.Eur.2.4.10
Arsenic (As)	≤2ppm	0.010ppm	USP<211>II Ph.Eur.2.4.2.
Cadmium (Cd)	≤1ppm	/	USP<233>
Mercury (Hg)	≤0.1ppm	/	USP<233>
Total aerobic microbial count	≤1.000 CFU/g	20CFU/f	USP<2021>Ph.Eur.2.6.12
Total moulds and yeasts count	≤100 CFU/g	<10CFU/g	USP<2021>Ph.Eur.2.6.12
Enterobacterial	≤10CFU/g	<10CFU/g	USP<2022>Ph.Eur.2.6.13
E.coli	N.d./10g	N.d.	USP<2022>Ph.Eur.2.6.13
Salmonella	N.d./25g	N.d.	USP<2022>Ph.Eur.2.6.13
Staphylococcus Aureus	N.d./10g	/	USP<2022>Ph.Eur.2.6.13

Conclusion: Qualified.

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Store 24 months under 30°C in a well-closed container and away from moisture, light, oxygen.

CERTIFICATE OF ANALYSIS

Item Name	Vitamin D3 Powder	Analysis Date	Nov 06, 2021
Batch Number	2021110601	Manufacture date	Nov 06, 2021
Specification	100,000 IU/G CWS	Retest date	Nov 05, 2023

Items	Specification	Methods	Results
Description	White to almost white free-flowing powder	Visual	White free-flowing powder
Assay	≥100,000IU/g	HPLC	105,000IU/g
Loss on drying	≤5.0%	USP <731> EP2.232	2.6%
Sieve Analysis	100% pass No.40	USP <786> EP2.9.12	Conforms
	≥90% pass No. 60		
	≥45% pass No. 100		
Heavy Metals (as Pb)	≤10mg/kg	USP <231>II EP2.4.8	<10mg/kg
Lead (Pb)	≤3mg/kg	USP <251>II EP2.4.10	<3mg/kg
Arsenic (As)	≤1mg/kg	USP <211>II EP2.4.2	<1mg/kg
Cadmium (Cd)	≤1mg/kg	USP<233>	<1mg/kg
Mercury (Hg)	≤0.1mg/kg	USP <233>	<0.1mg/kg
Total aerobic microbial count	≤1000cfu/g	USP<2021> EP2.6.12	<100cfu/g
Total moulds and yeasts count	≤100cfu/g	USP <2021> EP2.6.12	<10cfu/g
Enterobacterial	≤10cfu/g	USP<2021> EP2.6.13	<10cfu/g
*Salmonella	n.d./25g	USP<2022> EP2.6.13	Certified
*E.coil	n.d./10g	USP<2022> EP2.6.13	Certified
*Staphylococcus Aureus	n.d./10g	USP<2022> EP2.6.13	Certified
*Pseudomonas aeruginosa	n.d./10g	USP<2022> EP2.6.13	Certified

Remark: *Performed the tests once half a year.

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