



RECKON ORGANICS PVT. LTD.

QUALITY ASSURANCE DEPARTMENT

CERTIFICATE OF ANALYSIS

Product	: ASCORBIC ACID BP		
Batch no.	: AA/24/0341	A.R. No.	: QCD/AA/24-0341
Date of Mfg.	: JUN - 2024	Analyzed by	: SMP/GSR
Expiry Date	: MAY - 2028	Date of analysis	: 13/06/2024
Reference	: BP	Batch size	: 500 ±50 Kg
Mfg. License No.	: G/28/1537		
Storage Condition	: Store protected from sunlight and moisture avoiding contact with metals. It undergoes rapid decomposition in solutions in contact with air.		

Sr. No.	Test	Specifications	Result
1.	Description	A white or almost white, crystalline powder or colorless crystals becoming discolored on exposure to air and moisture.	Complies
2.	Solubility	Freely soluble in water, sparingly soluble in ethanol (96 per cent)	Complies
3.	Identification First identification: B, C Second identification: A,C,D.	A) UV-Vis Spectrophotometry; Maximum absorbance at 243nm. Sp.Abs max. is 545 to 585.	Complies
		B) Conforms by IR Absorption Spectrophotometry.	Complies
		C) pH 2.1 to 2.6.	2.30
		D) A grey precipitate will be formed.	Complies
4.	Melting Point	It melts at 190°C with decomposition	190°C
5.	Appearance of solution	Solution S is clear and not more intensely colored than reference solution BY ₇ .	Complies
6.	Specific optical rotation	+20.5° to +21.5°	+21.1°
7.	Impurity E	NMT 0.2%	Complies
8.	Related substance i) Impurity C ii) Impurity D iii) Unspecified impurities iv) Total of impurities other than C and D	NMT 0.15%	0.09%
		NMT 0.15%	0.02%
		NMT 0.10%	0.04%
		NMT 0.20%	0.06%
9.	Copper	NMT 5 ppm	Complies
10.	Iron	NMT 2 ppm	Complies
11.	Sulfated ash	NMT 0.1%	0.05%
12.	Assay (Ascorbic acid as it is basis)	99.0% to 100.5%	99.84%
13.	Residual Solvent		
	Methanol	NMT 3000 ppm	Complies
14.	Particle size		
	Sieve analysis (80 mesh)	100% Pass through 80 mesh	100%

Remarks: Material complies as per above specification.

Prepared By: *Smt J*

Officer QA/QC

Date: 21/06/2024

Checked By: *[Signature]*

Manager QA/QC

Date: 21/06/2024

Approved By: *[Signature]*

Head Quality

Date:

21/06/2024



Think Extract Think Herbo Nutra

CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION

Product Name	Astaxanthin Extract	Nature of product	Powder
Botanical Name	<i>Haematococcus pluvialis</i>	Origin	India
Part Used	Algae	Solvents Used	Hydroalcoholic
Batch No.	HN/AE/202403222	Manufacturing Date	Mar-24
Batch Quantity	100 KG	Expiry date	Feb-27

TESTING PARAMETERS

PHYSICAL PARAMETERS

Items	Specification	Method	Results
Color	Purple	Organoleptic	Complies
Odour	Characteristic	Organoleptic	Complies
Taste	Natural	Organoleptic	Complies
Solubility	Partial Soluble in water	In House	Complies
Appearance	Fine Powder	Organoleptic	Complies

ANALYTICAL QUALITY

Identification	Identical to R.S. sample	TLC	Complies
Sieve analysis	90% through 80 mesh	Sieve	Complies
Moisture (w/w)	< 10.0%	In House	4.65%
Ash (w/w)	< 5.0%	In House	2.49%
Acid insoluble ash(w/w)	< 2.4%	In House	1.26%
Bulk Density	40-80 g/100mL	In House	Complies
Active Component- Assay(Astaxanthin)	10%	HPLC-MS	10.14%

HEAVY METALS

Arsenic	Max 1.1 ppm	ICP-OES	B.L.Q
Cadmium	Max 1.0 ppm	ICP-OES	B.L.Q
Lead	Max 2.5 ppm	ICP-OES	B.L.Q
Mercury	Max 0.1 ppm	ICP-OES	B.L.Q

CONTAMINANTS

Aflatoxin B1	≤2ppb	EASI-CHE-SOP-18	Complies
Aflatoxin B2	≤2ppb	EASI-CHE-SOP-18	Complies
Aflatoxin G1	≤2ppb	EASI-CHE-SOP-18	Complies
Aflatoxin G2	≤2ppb	EASI-CHE-SOP-18	Complies
Ethylene Oxide	≤0.01mg/kg	EKA-CHE-SOP-053(By GC-MS)	Complies
Pesticides Residues	Organic Requirements	EKA-CHE-SOP-030(By LC-MSMS&GC-MSMS)	Complies

Address: A-2/66, UPSIDC SITE 5, Kasna Surajpur Industrial Area, Gautam Budh Nagar, UP-201308, India
 Telephone: +91 9911016820, Email: ceo@herbonutra.com, Web: www.herbonutra.com

Doc No. HNEPL/F/QC/09, Version 5



HERBO NUTRA

extract pvt. ltd.

Think Extract Think Herbo Nutra

MICROBIOLOGICAL PARAMETERS

Total Plate count /g	<10000 CFU/g	ISO 4833-1-2013	<1000 CFU/g
Yeast & Molds /g	<100 CFU/g	ISO 21527-2:2008	<100 CFU/g
Coliform/g	<10 CFU/g	ISO 4832:2006	<10 CFU/g
Escherichia coli /25g	Negative	ISO 16649-2-2001	Negative
Salmonella /25g	Negative	ISO 6579-1:2017/AMD 1:2020	Negative

Note: B.L.Q – Below Limit of Quantification, Limit of Quantification: 0.05mg/kg for Heavy Metals

Packing and Storage	Store in sealed containers at cool & dry place to protect from light, moisture and pest infestation.
Appearance	This is a natural product and there may be color variations from lot to lot due to crop fluctuations from harvest to harvest.
Shelf Life	36 months under the above condition, and in its original package.

PREPARED BY
(QC/QA Executive)

APPROVED BY
(QC/QA Head)

Version:5

Address: A-2/66, UPSIDC SITE 5, Kasna Surajpur Industrial Area, Gauram Budh Nagar, UP-201308, India
Telephone: +91 9911016820, Email: ceo@herbonutra.com, Web: www.herbonutra.com

Doc No. HNEPL/F/QC/09, Version 5

Divi's Laboratories Limited

Certificate of Analysis





Product : Beta-Carotene 30%		Rev. No. : HNBC30A/07
PRODUCT CODE: HNBC30A		Sl. No. : HNBC30A-043AC
Batch Number : HNBC30A-0181223	Mfg. date : DEC. 2023	Total pages : 1
Q.C.R.No. : DU2/NFP/2312/002076	Retest date : DEC. 2026	Page No. : 1
Country of Origin : INDIA		

S. No.	Test	Specification	Observation
01.	Description	Red color suspension	Red color suspension
02.	Heavy metals by ICP* a) Arsenic b) Lead c) Cadmium d) Mercury	Not more than 1.5 ppm Not more than 0.5 ppm Not more than 0.5 ppm Not more than 0.1 ppm	Complies Complies Complies Complies
03.	Beta-Carotene content by UV	Not less than 30.0% w/w	32.3% w/w
04.	Vitamin A activity	Not less than 500,000 IU/g of Provitamin A activity	539600 IU/g
05.	Microbiological analysis Aerobic bacteria Yeasts and molds Enterobacteria Escherichia coli Salmonella spp. Staphylococcus aureus Pseudomonas aeruginosa*	Maximum 1000 CFU/g Maximum 100 CFU/g Maximum 10 CFU/g Absent in 10 g Absent in 25 g Absent in 10 g Absent in 10 g	<10 CFU/g <10 CFU/g <10 CFU/g Absent in 10 g Absent in 25 g Absent in 10 g Complies

Remarks: The above material conforms to the given specifications.

*These tests are verified on random samples.

	Analyst	Manager-QC
Signature	 27/12/23	 27/12/23

AN ISO-9001 (QMS), ISO-14001 (EMS), ISO-45001 (Health and Safety), FSSC 22000 (Food Safety Standard),
GMP+B2 (Feed Safety Assurance) CERTIFIED COMPANY

FACTORY: UNIT-2, Chippada Village, Annavaram Post, Bheemunipatnam Mandal, Visakhapatnam District, Andhra Pradesh - 531 162, INDIA.
Ph: + 91 - 8922 - 248911, Fax: + 91 - 8922 - 248922, CIN : L24110TG1990PLC011854

CORPORATE OFFICE: Divi Towers, 1-72/23(P)DIVIS/303, Cyber Hills, Gachibowli, Hyderabad, Telangana - 500 032, INDIA.
Tel. : +91-40-23786300 / 400, Fax : +91-40-23786460, E-mail : mail@divislabs.com

Website: www.divinutraceuticals.com

Format Code : NQC/RPF/07
Rev.No.07



QUALITY ASSURANCE DEPARTMENT
CERTIFICATE OF ANALYSIS

Name of the Product	BUTYLATED HYDROXY ANISOLE
Batch No.	ABH024D030
Batch Size	2000.10 KG.
Manufacturing Date	APRIL - 2024
Use By Date	MARCH - 2026
Manufactured At	Camlin Fine Sciences Limited, Tarapur.
Certificate No.	BHA - ABH024D030

Sr. No.	Tests	Observations	Specifications
1	DESCRIPTION	A white crystalline flakes.	White, yellowish or slightly pinkish, crystalline powder.
2	SOLUBILITY	Practically insoluble in water, very soluble in methylene chloride, freely soluble in alcohol and fatty oils. It dissolves in dilute solutions of alkali hydroxides.	Practically insoluble in water, very soluble in methylene chloride, freely soluble in alcohol and fatty oils. It dissolves in dilute solutions of alkali hydroxides.
3	IDENTIFICATION		
	A) TLC	Complies	To comply
	B) COLOUR TEST	Complies	Colour test- To comply
4	C) COLOUR TEST	Complies	Colour test- To comply
4	APPEARANCE OF SOLUTION	Complies	Complies the test.
5	RELATED SUBSTANCES (TLC)		
	3-TERT BUTYL - 4 - HYDROXYANISOLE	> 90%	Min. 90.0%.
	2-TERT BUTYL - 4 - HYDROXYANISOLE	< 10.0%	Max. 10.0%.
	HYDROQUINONE	< 0.2%	Max. 0.2%
	ANY OTHER IMPURITIES	< 0.5%	Max. 0.5%
6*	HEAVY METALS	< 10 PPM	Max. 10 PPM
7	SULPHATED ASH	0.006%	Max. 0.1%
8	ASSAY (HPLC)	99.20%	Min. 98.5% of C ₁₁ H ₁₄ O ₂

* The test analyzed randomly in between every 25th batch as per our SQC.

Remarks: The above mentioned batch complies as per the FCC/BP/IP specifications.

Approved By

B.L. Arekar
D.G.M. - C.A., QMS & FSMS



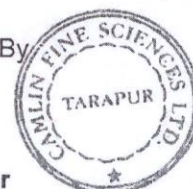
**QUALITY ASSURANCE DEPARTMENT
CERTIFICATE OF ANALYSIS**

Name of the Product	:	BUTYLATED HYDROXY TOLUENE
Batch No.	:	GHT021G003
Batch Size	:	100.10 KG.
Manufacturing Date	:	MAY - 2021
Best Before	:	APRIL - 2023
Marketed By	:	Camlin Fine Sciences Limited, Tarapur.
Certificate No.	:	BHT - GHT021G003

Sr. No.	Tests	Observations	Specifications
1	DESCRIPTION	White Crystalline solid.	White Crystalline solid.
2	SOLUBILITY	Soluble in alcohol & in oils, Insoluble in water, propylene glycol.	Soluble in alcohol & in oils, Insoluble in water, propylene glycol.
3	IDENTIFICATION	Complies	Positive
4	RESIDUE ON IGNITION	0.0008%	Max. 0.002%
5	SOLIDIFICATION POINT	70.1°C.	NLT 69.2°C.
6	PURITY (ASSAY)	99.85%	Min. 99%

Remarks: The above-mentioned batch confirms with above specifications.

Approved By

B.L. Arekar
D.G.M. - Q.A., QMS & FSMS

ROYAL DRUGS AND LIFE SCIENCES PVT.LTD.

Plot No.-555, HSIIDC Industrial Estate Phase-II, Barhi Sonapat Haryana 131101

CERTIFICATE OF ANALYSIS

Name of Product : **Biotin USP**
Batch Number : RDL/BTN/202404002 Batch Size : 15.024 Kgs
Dispatch Qty. : 15.000 Kgs A.R. No. : RDL/BTN/FG/002
Manufacturing Date : Apr.-2024 Mfg. Licence No : 1091-OSP(H) &763-B (H)
Expiry Date : Mar.-2027 Sample Qty. : 5.0 gm
Date of Receipt : 25/04/2024 Date of Release : 25/04/2024

Ref. To Protocol


USP-41

TESTS	RESULTS OBTAINED	SPECIFICATION
Description	White crystalline powder.	Practically white crystalline powder.
Identification		
A) IR	Complies	Match with the Reference IR Spectrum.
B)	Complies	It meets the requirement in specific tests for optical Rotation.
Retention time	Complies	Should be similar to that of the reference solution.
Solubility	Complies	Very slightly soluble in water and in alcohol insoluble in other common organic solvents.
Specific Rotation	+92.25°	+89° ~ +93°
IMPURITIES		
Individual impurity	0.14%	Not more than 1.0%
Total impurity	1.11%	Not more than 2.0%
Assay	98.52%	97.5% ~ 102.0%

AS the above results are complies with USP-41 Pharmacopeia Specifications.

Prepared By 
Date: 25/04/24

Checked By 
Date: 25/04/2024

Approved By 
Date: 25/04/24

Gujarat Minerals Industries (GMI)

TYPICAL CERTIFICATE OF ANALYSIS (COA)


Product	Calcium Carbonate
Grade	Oyster
Product Code	GCAL-OY
Date	06/07/2024

Report No.	Batch No.	Mfg Date:	Exp. Date	Quantity
22	122	July-24	June-29	20000kg

SN	TEST	RESULT	NORMAL VALUE
1	Description	Fine White Microcrystalline powder	A fine, white microcrystalline powder
2	Identification		
	A) By chemical test	Complies	A white precipitate is produced
	B) For calcium salt	Complies	To comply the test
	C) By chemical test	Complies	A white ppt is observed which after boiling and cooling the mixture is only sparingly soluble in ammonium chloride solution
3	Water soluble substances	7mg	Lt. NMT 15 mg
4	Subs. Insoluble in acid	13mg	Lt. NMT 25 mg
5	Arsenic	Not detected	Lt. NMT 4 ppm
6	Heavy metals (as lead)	Complies	Lt. NMT 20 ppm
7	Barium	Complies	Lt. NMT 100 ppm
8	Iron	Complies	Lt. NMT 200 ppm
9	Magnesium and Alkali metal	0.71%	Lt. NMT 1.0%
10	Chloride	Complies	Lt. NMT 250 ppm
11	Sulphate	Complies	Lt. NMT 0.3%
12	Loss on Drying (At 200 degrees Celsius for 3 hours)	0.65%	Lt. NMT 2.0%
13	Physical Analysis:		
	A) Bulk density	0.646gm/ml	Lt. 0.5 to 0.8 gm/ml
	B) Tapped density (100 strokes)	0.837gm/ml	Lt. 0.8 to 1.0 gm/ml
	C) Particle size	96.53%	Lt. NLT 95% Passes through # 300mesh
14	Assay (Calcium Carbonate)	99.69%	Lt. 98.0% to 100.5% on dried basis

- Store protected from moisture
- Store protected from direct sunlight
- All information contained in the confidential and is the sole property of Gujarat Minerals Industries. Any reproduction in part or whole without the written permission is prohibited

For GUJARAT MINERALS INDUSTRIES


Lab In charge

Plot No: 365 /366, POR GIDC, Ramangamdi, Vadodara 391 243 / ashwin.gmi@gmail.com / +91 9920625909



杭州鑫富科技有限公司

Hangzhou Xinfu Science & Technology Co., Ltd.

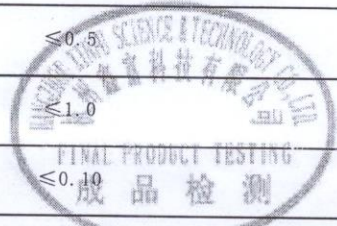
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CERTIFICATE OF ANALYSIS

No. BG2024012115182

Product Name	D-Calcium pantothenate	Production Quantity	2,700 kg
Specification	IP2022	Shipped Quantity	2,700 kg
Lot #	24012104	Package	25kg/Carton
Manufacturing Date	January 21, 2024	Expiry Date	January 20, 2028

Item	Specification	Result
Description	A white powder, slightly hygroscopic.	Conforms
Identification B. Specific Optical Rotation (on the dried basis), °	+25.0~+27.5	+27.2
Appearance of Solution	Clear and colourless	Conforms
pH	6.8~8.0	7.0
β-Alanine, %	≤0.5	Conforms
Heavy Metals(as Pb), ppm	≤20	Conforms
Loss on Drying, %	≤3.0	2.2
Assay (on the dried basis), %	98.0~101.0	99.3
Residual Solvent(Methanol), %	≤0.3	0.03
* Identification A. Determine by Infrared Absorption Spectrophotometry	Compare the spectrum with the reference spectrum of calcium pantothenate	Conforms
* Identification C. Identification Tests-General, Calcium.	Gives reaction (A) of calcium salts	Conforms
*△Lead, mg/kg	≤0.5	Conforms
*△Cadmium, mg/kg	≤0.5	Conforms
*△Arsenic, mg/kg	≤1.0	Conforms
*△Mercury, mg/kg	≤0.10	Conforms
Remark:	Items marked with * are tested periodically randomly. Items marked with △ are internal control items.	
Conclusion	Approved	



Compiled by: 马丹良 Re-checked by: 程 倩 Signed by: 程 倩
 Date: 2024-01-24 Date: 2024-01-24 Date: 2024-01-24

Manufacturing Address: No.9 Shangguafan, Jinnan, Lin'an Distr., Hangzhou 311301, Zhejiang, P.R.China

Tel: +86 571 6375 9219

Fax: +86 571 6375 9260

Email: api@yifany.com

PARAS ORGANICS PVT. LTD.



D-119, TTC Indl. Area, MIDC Shiravane, P.O. Nerul, Navi Mumbai 400706

CERTIFICATE OF ANALYSIS			
Name of the Product	CARBONYL IRON USP.		
Batch No.	EBU 02/23		
Date of Sampling	24/08/2023	Analytical Report No.	XIII-PFG-E-202/23
Date of Mfg.	AUG.-2023	Retest Date	JUL.-2028
Quantity Mfg.	250.0Kg(10X25.0Kg)	Quantity of Sample	3X50g
Date of Analysis	24/08/2023	Date of Sample Approval	25/08/2023
Specification No.	PSM-FG-89	Revision No./Date	Rev.02, Dt:19/06/2023

RESULT OF ANALYSIS:

SR. NO.	TEST	RESULTS	SPECIFICATION
1	Description	Grey coloured, heavy free flowing powder without any palpable grittiness. Has no odour or taste.	Grey coloured, heavy free flowing powder without any palpable grittiness. Has no odour or taste.
2	Solubility	Practically insoluble in organic solvents and water.	Practically insoluble in organic solvents and water.
3	Identification	Complies	A. Hydrogen is evolved and the resulting solutions give a positive test B. It appears as spheres built with concentric shells. It particle size is 45-75µm
4	Assay	100.12%	NLT 98% w/w on as is basis
5	Acid insoluble substances	0.040%w/w	NMT 0.2%
6	Elemental Impurities		
	Arsenic	Less Than 3µg/g	NMT 3µg/g
	Lead	Less Than 4µg/g	NMT 4µg/g
	Mercury	Less Than 2µg/g	NMT 2µg/g
7	Particle size	100%	1. NLT 100% through 200 mesh sieve
		97.67%	2. NLT 95% through 325 mesh sieve

Remarks: The sample **COMPLIES / DOES NOT COMPLY** with the standards of quality as per USP & In-house standards as above prescribed.

Test Carried out by: *M.D.*
(Signature) 25/08/2023

Approved by: *[Signature]*
(Signature) 25/08/2023

VERIFIED BY Q. A. Dept. 25/08/2023 PARAS ORGANICS PVT. LTD.

Assay
Elemental Impurity

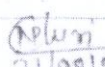




CERTIFICATE OF ANALYSIS

Name of product : Choline Bitartrate FCC
Batch Quantity : 500 kg
Manufacturing Date : 08/2023
Expiry Date : 07/2026
A.R. No. : SC1/2324/QCP/QFG/00625

Test	Specification	Result/Batch No	Method
		100823	
Description	White hygroscopic crystalline powder.	Complies	FCC
Solubility	It is freely soluble in water, slightly soluble in alcohol, and insoluble in ether and in chloroform	Complies	FCC
Identification	To comply test A, B and C		
A) Chemical test	The odour of triethylamine is detectable	Complies	
B) Chemical test	A pale yellow precipitate forms.	Complies	FCC
C) Chemical test	An emerald green colour develops immediately.	Complies	
Optical (Specific) Rotation	Between +17.5° and +18.5°	+18.3 °C	FCC
Water	NMT 0.5 %	0.21 %	FCC
Heavy metals	NMT 10 ppm	Less than 10 ppm	FCC
Residual solvents 1,4 Dioxane	To pass the test	Not detected	FCC
Lead	NMT 2 ppm	0.34 ppm	FCC
Residue on ignition	NMT 0.1 %	0.039 %	FCC
Assay (OAB)	NLT 98.0%	99.70 %	FCC
Date of Analysis		31/08/2023	

Remark: The above sample complies with FCC having our internal specification No. QCD/FP/CBT/014-06

Analyzed by	Checked by	Approved by
 31/08/2023	 31/08/2023	 31/08/2023



AMSAL CHEM. PVT. LTD.
QUALITY CONTROL LABORATORY
The Drugs & Cosmetic Act 1940 & the rules thereunder
CERTIFICATE OF ANALYSIS

A-1 401, 402 & 403,
G.I.D.C. Industrial Estate,
Ankleshwar-393 002.
District : Bharuch, Gujarat, India.
CIN : U24231GJ1992PTCO18289

Format No : SOP/QC/111/FM01
Name of Product : CHROMIUM POLYNICOTINATE
Batch No. : 23001/CPN
Mfg. Date : 15/03/2023
Exp. Date : 14/03/2028
Sample quantity : 50 gm.


A.R. No. : AC/CPN/001/2023
Batch size : 120.0 kg
Date of Sampling : 25/03/2023
Date of Release : 30/03/2023
Analysed as per : IN HOUSE SPECIFICATION

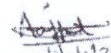
SR. No.	TEST	SPECIFICATION	RESULT
01	Description	Purple Grey Crystlline powder.	Purple Grey Crystalline powder
02	Solubility	In soluble in water/alcohol.	Complies
03	Mesh size	Not less than 90 % passes through 60 Mesh	99.82 %
04	Loss on Drying	Not more than 6.0 % w/w	3.04 % w/w
05	Bulk density	Not less than 0.40 gm/ml	0.48 gm/ml
06	Heavy metal	Not more than 10.0 ppm	Complies
	Lead	Not more than 3.0 ppm	Not Detected
	Arsenic	Not more than 1.0 ppm	Not Detected
	Cadmium	Not more than 1.0 ppm	Not Detected
	Mercury	Not more than 0.1 ppm	Not Detected
07	Chromium Content	Not less than 10.0 %	12.32 % w/w
08	Assay	98.0 to 102.0 %	99.04 %
09	Microbiological testing		
	1. Total plate count	NMT 1000 cfu / g	00 cfu/g
	2. Yeast & Mould	NMT 100 cfu / g	00 cfu/g
	3. E-coli	Absent	Absent
	4. Salmonella	Absent	Absent


Report:

In the opinion of the undersigned the sample referred to above is of Standard Quality as per IN HOUSE SPECIFICATION.

Remark: This batch COA is reprinted on 04.04.2023.


04/04/2023
Analysed by
(QC Chemist)


04/04/2023
Checked by
(Asst. QC Manager)


04/04/2023
Approved by
(Asst. QA Manager)

CERTIFICATE OF ANALYSIS

NAME OF PRODUCT: COPPER GLUCONATE	
GRADE: USP	CAS NO.: 527-09-3
BATCH NO.: VS01024	AR NO.: FPVS01024
MOLECULAR WEIGHT.: 453.84gm/mol	MOLECULAR FORMULA.: C ₁₂ H ₂₂ CuO ₁₄
MFG. DATE: JAN- 24	EXP. DATE: DEC- 26
SUPPLY QUANTITY.: 2 KG	PAGE NO.: 1 of 1

Sr. No.	TEST	SPECIFICATION	Results
1.	Description	It Occurs as a fine, light blue powder.	It Occurs as a fine, light blue powder.
2.	Identification	A. Identification tests—general, Copper: A50-mg/mL solution meets the requirements. B. Thin-layer chromatographic identification test	A. Complies B. Complies
3.	Chloride	NMT 0.07%	< 0.07%
4.	Sulfate	NMT 0.05%	< 0.05 %
5.	Arsenic	NMT 3 ppm	< 3 ppm
6.	Limit of Lead	NMT 25 µg/g	< 25 µg/g
7.	Reducing substances	NMT 1.0 %	< 1.0 %
8.	Assay	Copper Gluconate contains NLT 98.0% and NMT 102.0% of copper gluconate (C ₁₂ H ₂₂ CuO ₁₄).	98.8 %

Conclusion: The above referred sample complies / doesn't complies as per USP Specification.

	Prepared By	Reviewed By	Approved By
Signature			
Date	16/01/24	16/01/24	16/01/24



HERBO NUTRA
extract pvt. ltd.

**Think Extract
Think Herbo Nutra**

CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION

Product Name	Garlic Extract	Nature of product	Powder
Botanical Name	<i>Allium sativum</i>	Origin	India
Part Used	Bulb	Solvents Used	Hydroalcoholic
Batch No.	HN/GE/2023062484	Manufacturing Date	June-23
Batch Quantity	0.500 KG	Expiry date	May-26

TESTING PARAMETERS

PHYSICAL PARAMETERS

<u>Items</u>	<u>Specification</u>	<u>Method</u>	<u>Results</u>
Color	Brown	Organoleptic	Complies
Odour	Characteristic	Organoleptic	Complies
Taste	Natural	Organoleptic	Complies
Solubility	Soluble in water	In House	Complies
Appearance	Fine Powder	Organoleptic	Complies

ANALYTICAL QUALITY

Identification	Identical to R.S. sample	TLC	Complies
Sieve analysis	90% through 80 mesh	Sieve	Complies
Moisture (w/w)	< 10.0%	In House	4.24%
Ash (w/w)	< 5.0%	In House	2.54%
Acid insoluble ash(w/w)	< 2.4%	In House	1.19%
Bulk Density	40-80 g/100mL	In House	Complies
Active Component-Assay (Allicin)	2.5%	HPLC	2.52%

HEAVY METALS

Arsenic	Max 1.1 ppm	ICP-OES	B.L.Q
Cadmium	Max 1.0 ppm	ICP-OES	B.L.Q
Lead	Max 2.5 ppm	ICP-OES	B.L.Q
Mercury	Max 0.1 ppm	ICP-OES	B.L.Q

CONTAMINANTS

Aflatoxin B1	≤2ppb	EASI-CHE-SOP-18	Complies
Aflatoxin B2	≤2ppb	EASI-CHE-SOP-18	Complies
Aflatoxin G1	≤2ppb	EASI-CHE-SOP-18	Complies
Aflatoxin G2	≤2ppb	EASI-CHE-SOP-18	Complies
Ethylene Oxide	≤0.01mg/kg	EKA-CHE-SOP-053(By GC-MS)	Complies
Pesticides Residues	Organic Requirements	EKA-CHE-SOP-030(By LC-MSMS&GC-MSMS)	Complies

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MICROBIOLOGICAL PARAMETERS

Total Plate count /g	<10000 CFU/g	ISO 4833-1-2013	<1000 CFU/g
Yeast & Molds /g	<100 CFU/g	ISO 21527-2:2008	<100 CFU/g
Coliform/g	<10 CFU/g	ISO 4832:2006	<10 CFU/g
Escherichia coli /25g	Negative	ISO 16649-2-2001	Negative
Salmonella /25g	Negative	ISO 6579-1:2017/AMD 1:2020	Negative

Note: B.L.Q – Below Limit of Quantification, Limit of Quantification: 0.05mg/kg for Heavy Metals

Packing and Storage	Store in sealed containers at cool & dry place to protect from light, moisture and pest infestation.
Appearance	This is a natural product and there may be color variations from lot to lot due to crop fluctuations from harvest to harvest.
Shelf Life	36 months under the above condition, and in its original package.

PREPARED BY	APPROVED BY
(QC/QA Executive)	(QC/QA Head)



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CERTIFICATE OF ANALYSIS

Product and Batch Information

Product Name:	Panax Ginseng Extract	Country of Origin:	China
Latin Name:	<i>Panax Ginseng C.A.Mey.</i>	Manufacture Date	April 2, 2024
Batch No:	GIN-240402	Analysis Date	April 2, 2024
Quantity:	1200kg	Report Date	April 8, 2024

Analysis Item	Specification	Result
Assay (UV)	NLT 19~21% Ginsenosides	20.23%
Physical Control		
Appearance	Fine light yellow to off-white powder	Conforms
Odor	Characteristic	Conforms
Taste	Characteristic	Conforms
Sieve Analysis	NLT 95% pass 80 mesh	Conforms
Moisture Content	NMT 8.0%	3.51%
Ash	NMT 8.0%	3.45%
Chemical Control		
Arsenic (As)	NMT 1ppm	Conforms
Cadmium(Cd)	NMT 1ppm	Conforms
Lead (Pb)	NMT 3ppm	Conforms
Mercury(Hg)	NMT 0.1ppm	Conforms
Heavy Metals	NMT 10ppm	Conforms
Microbiological Control		
Total Plate Count	NMT 1000cfu/g	Conforms
Yeast & Mold	NMT 100cfu/g	Conforms
E.Coli	Negative/g	Conforms
Salmonella	Negative/25g	Conforms
S. aureus	Negative/25g	Conforms
Packing and Storage		
Packing	Pack in paper-drums and two plastic-bags inside. Net Weight: 25kg/drum.	
Storage	Store in a well-closed place with constant low temperature and no direct sun light.	
Shelf Life	3 years .	
Expiration Date	April 1, 2027	



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CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION

Product Name	Grape Seed Extract	Nature of product	Powder
Botanical Name	<i>Vitis vinifera</i>	Origin	India
Part Used	Seed	Solvents Used	Hydroalcoholic
Batch No.	HN/GSE/202310445	Manufacturing Date	Oct-23
Batch Qty.	3 KG	Expiry date	Sep-26

TESTING PARAMETERS

PHYSICAL PARAMETERS

Items	Specification	Method	Results
Color	Maroon	Organoleptic	Complies
Odour	Characteristic	Organoleptic	Complies
Taste	Natural	Organoleptic	Complies
Solubility	Soluble in water	In House	Complies
Appearance	Fine Powder	Organoleptic	Complies

ANALYTICAL QUALITY

Identification	Identical to R.S. sample	TLC	Complies
Sieve analysis	90% through 80 mesh	Sieve	Complies
Moisture (w/w)	< 10.0%	In House	4.78%
Ash (w/w)	< 5.0%	In House	2.58%
Acid insoluble ash(w/w)	< 2.4%	In House	1.26%
Bulk Density	40-80 g/100mL	In House	Complies
Active Component-Assay (OPC)	95%	UV -MS	95.15%

HEAVY METALS

Arsenic	Max 1.1 ppm	ICP-OES	B.L.Q
Cadmium	Max 1.0 ppm	ICP-OES	B.L.Q
Lead	Max 2.5 ppm	ICP-OES	B.L.Q
Mercury	Max 0.1 ppm	ICP-OES	B.L.Q

CONTAMINANTS

Aflatoxin B1	≤2ppb	EASI-CHE-SOP-18	Complies
Aflatoxin B2	≤2ppb	EASI-CHE-SOP-18	Complies
Aflatoxin G1	≤2ppb	EASI-CHE-SOP-18	Complies
Aflatoxin G2	≤2ppb	EASI-CHE-SOP-18	Complies
Ethylene Oxide	≤0.01mg/kg	EKA-CHE-SOP-053(By GC-MS)	Complies
Pesticides Residues	Organic Requirements	EKA-CHE-SOP-030(By LC-MSMS&GC-MSMS)	Complies

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MICROBIOLOGICAL PARAMETERS

Total Plate count /g	<10000 CFU/g	ISO 4833-1-2013	<1000 CFU/g
Yeast & Molds /g	<100 CFU/g	ISO 21527-2:2008	<100 CFU/g
Coliform/g	<10 CFU/g	ISO 4832:2006	<10 CFU/g
Escherichia coli /25g	Negative	ISO 16649-2-2001	Negative
Salmonella /25g	Negative	ISO 6579-1:2017/AMD 1:2020	Negative

Note: B.L.Q – Below Limit of Quantification, Limit of Quantification: 0.05mg/kg for Heavy Metals

Packing and Storage	Store in sealed containers at cool & dry place to protect from light, moisture and pest infestation.
Appearance	This is a natural product and there may be color variations from lot to lot due to crop fluctuations from harvest to harvest.
Shelf Life	36 months under the above condition, and in its original package.

PREPARED BY (QC/QA Executive)	APPROVED BY (QC/QA Head)
---	------------------------------------

Version:5

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CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION

Product Name	Green Tea Extracts	Nature of product	Powder
Botanical Name	<i>Camellia sinensis</i>	Origin	India
Part Used	Leaf	Solvents Used	Hydroalcoholic
Batch No.	HN/GTE/2023102517	Manufacturing Date	Oct-23
Batch Quantity	1 KG	Expiry date	Sep-26

TESTING PARAMETERS

PHYSICAL PARAMETERS

Items	Specification	Method	Results
Color	Brown	Organoleptic	Complies
Odour	Characteristic	Organoleptic	Complies
Taste	Natural	Organoleptic	Complies
Solubility	Soluble in water	In House	Complies
Appearance	Fine Powder	Organoleptic	Complies

ANALYTICAL QUALITY

Identification	Identical to R.S. sample	TLC	Complies
Sieve analysis	90% through 80 mesh	Sieve	Complies
Moisture (w/w)	< 10.0%	In House	5.50 %
Ash (w/w)	< 5.0%	In House	2.99%
Acid insoluble ash(w/w)	< 2.4%	In House	1.06%
Bulk Density	0.45-0.60g/mL	In House	Complies
Active Component- Assay (Polyphenol)	50%	HPLC-MS	50.10%

HEAVY METALS

Arsenic	Max 1.1 ppm	ICP-OES	B.L.Q
Cadmium	Max 1.0 ppm	ICP-OES	B.L.Q
Lead	Max 2.5 ppm	ICP-OES	B.L.Q
Mercury	Max 0.1 ppm	ICP-OES	B.L.Q

CONTAMINANTS

Aflatoxin B1	≤2ppb	EASI-CHE-SOP-18	Complies
Aflatoxin B2	≤2ppb	EASI-CHE-SOP-18	Complies
Aflatoxin G1	≤2ppb	EASI-CHE-SOP-18	Complies
Aflatoxin G2	≤2ppb	EASI-CHE-SOP-18	Complies
Ethylene Oxide	≤0.01mg/kg	EKA-CHE-SOP-053(By GC-MS)	Complies
Pesticides Residues	Organic Requirements	EKA-CHE-SOP-030(By LC-MSMS&GC-MSMS)	Complies

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MICROBIOLOGICAL PARAMETERS

Total Plate count /g	<10000 CFU/g	ISO 4833-1-2013	<1000CFU/g
Yeast & Molds /g	<100 CFU/g	ISO 21527-2:2008	<100CFU/g
Coliform/g	<10 CFU/g	ISO 4832:2006	<10CFU/g
Escherichia coli /25g	Negative	ISO 16649-2-2001	Negative
Salmonella /25g	Negative	ISO 6579-1:2017/AMD 1:2020	Negative

Note: B.L.Q – Below Limit of Quantification, Limit of Quantification: 0.05mg/kg for Heavy Metals

Packing and Storage	Store in sealed containers at cool & dry place to protect from light, moisture and pest infestation.
Appearance	This is a natural product and there may be color variations from lot to lot due to crop fluctuations from harvest to harvest.
Shelf Life	36 months under the above condition, and in its original package.

PREPARED BY (QC/QA Executive)	APPROVED BY (QC/QA Head)
---	------------------------------------

Version:5

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Doc No. HNEPL/F/QC/09, Version 5

SHANGHAI WENTAI BIOTECHNOLOGY CO.,LTD

CERTIFICATION OF ANALYSIS

Product Name: L-Carnitine
 Manufacture Date: 2024.06.28
 Batch No.: 20240628
 Quantity: 3000KGS



Report Date: 2024.06.29
 Expiry Date: 2027.06.27

Item	Specification	Result
Appearance	White crystals or crystalline powder	White crystalline powder
Identification	IR	positive
Appearance of solution	Clear and colourless	Clear and colourless
Specific rotation $[\alpha]_{D20}$	-29.0° to -32.0°	-31.30°
Loss on drying	Not more than 0.5%	0.31%
Residue on ignition	Not more than 0.10%	0.09%
Chloride (Cl)	Not more than 0.4%	<0.4%
Sulfate (SO4)	Not more than 0.03%	Conforms
Iron (Fe)	Not more than 30ppm	Conforms
Heavy metals	Not more than 10ppm	<10ppm
Lead	Not more than 3ppm	<3ppm
Arsenic (as As ₂ O ₃)	Not more than 1ppm	<1ppm
Mercury	Not more than 0.1ppm	<0.1ppm
Cadmium	Not more than 1ppm	<1ppm
PH	5.5 - 9.5	7.2
Assay	97.0% to 103.0%	99.3%
Sodium	Not more than 0.1%	<0.1%
Total plate count	Not more than 1000cfu/g	10cfu/g
Yeast & mold	Not more than 100cfu/g	10cfu/g
Cyanide	Absent	Absent
E.Coli	Negative	Negative
Salmonella	Negative	Negative
Potassium	Not more than 0.2%	<0.2%
Residue Acetone	Not more than 1000ppm	Conforms
Residue Ethanol	Not more than 5000ppm	Conforms
Conclusion :	The products Conforms to USP40.	

Analysis : chen hong

Verification : zhaoyan

SHANGHAI WENTAI BIO TECHNOLOGY CO.,LTD

CERTIFICATION OF ANALYSIS

Product Name: L-Cysteine Base
 Manufacture Date: 2024.02.22
 Batch No.: 20240222
 Quantity: 1000KGS



Report Date: 2024.02.23
 Expiry Date: 2027.02.21

Item	Specification	Result
Description	White crystalline or crystalline powder	Conforms
Identification	Infrared Absorption	Conforms
Specific rotation [α] _D ²⁰	+ 7.9° to + 9.5°	+ 8.7°
State of solution	Not less than 95.0%	98.2%
Chloride (Cl)	Not more than 0.04%	Conforms
Ammonium	Not more than 0.02%	Conforms
Sulfate (SO ₄)	Not more than 0.03%	Conforms
Iron (Fe)	Not more than 10ppm	Conforms
Heavy metals	Not more than 10ppm	Conforms
Other amino acids	Not detected	Conforms
Arsenic (as As ₂ O ₃)	Not more than 1ppm	Conforms
Loss on drying	Not more than 0.5%	0.11%
Other Amino acids	Chromatographically Not detectable	Conforms
Residue on ignition	Not more than 0.10%	0.06%
Assay	98.0% to 101.0%	100.1%
pH	4.5 to 5.5	4.9
E.Coli	Negative	Negative
Salmonella	Negative	Negative
S.aureus	Negative	Negative
Conclusion:	The products Conforms to A1192	

Analysis: chenhong

Verification: zhaoyan



新疆阜丰生物科技有限公司

XINJIANG FUFENG BIOTECHNOLOGIES CO., LTD.

NO 188, FANGZHENG EAST STREET, GANQUANPU ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, URUMCHI CITY, XINJIANG PROVINCE, PRC

CHEMICAL ANALYSIS REPORT

FOR L-GLUTAMINE

INVOICE NO.: XJFF23WF007
 QUANTITY: 5000KG/200DRUMS
 MFG DATE: 2022.12.31

BATCH NO: GM2212057
 INSPECTION DATE: 2023.01.01
 EXPIRY DATE.: 202512.30

ITEMS	LIMITS	TEST RESULTS
DESCRIPTION	WHITE CRYSTALS OR CRVSTALLINE POWDER	CONFIRMS
ASSAY %	98.5-101.5	100.0%
SPECIFIC ROTATION	+6.3°~+7.3°	+6.58°
RESIDUE ON IGNITION %	≤0.3	0.07%
LOSS ON DRYING %	≤0.3	0.09%
CHLORIDE (Cl) %	≤0.05	<0.05
IRON (Fe) (mg/kg)	≤30	<30
SULFATE (SO ₄) %	≤0.03	<0.03
HEAVY METALS (mg/kg)	≤15	<15
LEAD (Pb) (mg/kg)	≤5	<5
ARSENIC (As) (mg/kg)	≤3	<3
CADMIUM (Cd) (mg/kg)	≤1	<1
MERCURY (Hg) (mg/kg)	≤1	<1
TOTAL PLATE COUNT cfu/g	≤2000	CONFIRMS
YEAST AND MOLDS cfu/g	≤100	CONFIRMS
E.COLI	NEGATIVE IN 10G	CONFIRMS
STAPHYLOCOCCUS AUREUS	NEGATIVE IN 10G	CONFIRMS
SALMONELLA	NEGATIVE IN 10G	CONFIRMS

As per USP:- chromatographic purity, organic volatile impurity, I.R (Id)
 - Residual solvents test not by COA

新疆阜丰生物科技有限公司
 阜丰

CERTIFICATE OF ANALYSIS

NAME OF PRODUCT: LIGHT MAGNESIUM OXIDE	
GRADE.: BP	CAS NO.: 1309-48-4
BATCH NO.: VPB02624	AR NO.: FPVPB02624
MFG. DATE: FEB - 24	EXP. DATE.: JAN - 27
MOLECULAR WEIGHT.: 40 30 gm/mol	MOLECULAR FORMULA.: MgO
SUPPLY QUANTITY.: 100 KG	PAGE NO.: 1 of 1

Sr. No	TEST	RESULT	SPECIFICATION
1.	Description	Fine, white or almost white, amorphous	Fine, white or almost white, amorphous powder
2.	Solubility	Complies	Practically insoluble in water. It dissolves in dilute acids with at most slight effervescence.
3.	Identification	A. Complies B. Complies C. Complies	A. Bulk density: Max. 0.15 gm/ml B. Gives reaction of Magnesium. C. Loss in Ignition.
4.	Appearance of solution	Complies	Solution S is not more intensely coloured than reference solution.
5.	Soluble Substances	< 2.0 %	Max. 2.0 %
6.	Substances insoluble in acetic acid	< 0.1 %	Max. 0.1 %
7.	Chlorides	< 0.15 %	Max. 0.15 %
8.	Sulfates	< 1.0 %	Max. 1.0 %
9.	Arsenic	< 4 ppm	Max. 4 ppm
10.	Calcium	< 1.5 %	Max. 1.5 %
11.	Iron	< 0.1 %	Max. 0.1 %
12.	Loss on ignition	4.5 %	Max. 8.0 %
13.	Assay (Ignited Substance)	98.8 %	98.0 % to 100.5 %
14.	Particle size	Complies	95 % pass 140 micron.

Conclusion: The above referred sample complies / doesn't complies as per BP Specification.

	Prepared By	Reviewed By	Approved By
Signature			
Date	22/02/24	22/02/24	22/02/24



SUPRIM Chemicals

E-76, Tarapur, M.I.D.C., Boisar - 401 506, Thane Dist.

QUALITY CONTROL DEPARTMENT

Finished Material Certificate Of Analysis : FF No. SC/QC/06
D.L.NO. : KD 327

Item : L-Lysine Hydrochloride USP
Batch No. : LL-163012024
Mfg. Date : JAN-2024
Exp. Date : DEC-2028
Batch Size : 1000 kg

Sample on : 31/01/2024
Testing Date : 31/01/2024
Report Date : 01/02/2024
Report No. : FM/LL-163/2023-2024
Qty. of Sample : 20x2 gm
A.R.No : SC/FM/242/2023-24

Sr No	TESTS	SPECIFICATION	RESULTS
1	Description	White odourless powder,	White odourless powder,
2	Solubility	Freely Soluble in water	Freely soluble in water.
3	Identification		
	By IR absorption spectroscopy	Infrared absorption spectrophotometry comparison Lysine mono hydrochloride RS.	Complies
4	Assay	To contain NLT 98.5% and NMT 101.5% of $C_6H_{14}N_2O_2.HCL$ calculated with reference to dried substance.	99.58%
5	Content of chloride	Between 19.0% and 19.6%	19.36%
6	Residue and Ignition	Not more than 0.1%	0.041%
7	Chloride and Sulphate	Not more than 0.03%	Less than 0.03%
8	Iron	Not more than 30ppm	Less than 30ppm
9	Related Compound	Any secondary spot of the sample solution is not larger or more intense than the principal spot of the standard solution	Complies
	Individual Impurities	Not more than 0.5%	Complies
	Total Impurities	Not more than 2.0%	Complies
10	Specific Optical Rotation	Between +20.4° and +21.4°	+21.02°
11	Loss on drying	Not more than 0.4%	0.30%
12	Residual Solvent	*NA	To Comply as per USP

*NA - Water is used in manufacturing process, hence residual solvent test is not applicable.
Conclusion : The product complies with the standard of quality prescribed in above USP.
The sample : Complies.

Analysed By

[Signature]
01/02/2024

Sign & date

Checked & Approved By

[Signature]
01/02/2024

Sign & date

SHANGHAI WENTAI BIO TECHNOLOGY CO.,LTD

CERTIFICATION OF ANALYSIS

Product Name: L-Methionine
 Manufacture Date: 2024.05.19
 Batch No.: 20240519
 Quantity: 3000KGS



Report Date: 2024.05.21
 Expiry Date: 2027.05.18
 CAS.No.: 63-68-3

Item	Specification	Result
Appearance	White crystals or crystalline powder	Conforms
Identification	Infrared Absorption	Conforms
Specific rotation [α]D ²⁰	+ 23.0° to + 24.5°	+ 23.5°
PH	5.6 to 6.1	5.79
Loss on drying	Not more than 0.2%	0.10%
Residue on ignition	Not more than 0.1%	0.06%
Chloride (Cl)	Not more than 0.02%	Conforms
Ammomium	Not more than 0.02%	Conforms
Sulfate(SO4)	Not more than 0.02%	Conforms
Iron(Fe)	Not more than 10ppm	Conforms
Heavy metals	Not more than 10ppm	Conforms
Lead	Not more than 3ppm	Conforms
Arsenic(as As ₂ O ₃)	Not more than 1ppm	Conforms
Mercury	Not more than 0.1ppm	Conforms
Cadmium	Not more than 1ppm	Conforms
Assay	99.0% to 100.5%	99.3%
Total Plate Count	Not more than 1000cfu/g	Conforms
Yeast and Mould	Not more than 100cfu/g	Conforms
E.Coli	Negative	Negative
Salmonella	Negative	Negative
S.aureus	Negative	Negative
Conclusion :	The products Conforms to AJ192	

Analysis: chenhong

Verification: zhaoyan



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✉ : marketing@wbcil.com; 🌐 : www.wbcil.com
Corporate Identification number: U24121WB1988PLC044290

Reference:

QC/WBCIL/LMFNL95013/23

Date:

16/08/2023

CERTIFICATE OF ANALYSIS

Name of Material: L-Methyl Folate Calcium IHS	Batch No. : LMFNL952307C
Batch Size: 15.0Kg	Spec. No. : WBCIL/QC/SP/FM/LMFNL95
Month of Manufacturing: July 2023	STP No. : WBCIL/QC/STP/FM/LMFNL95
Expiry Date: June 2026	Material Release Date: 16/08/2023
Batch Release Quantity: 13.0Kg	COA Issuance Date/COA Re-issuance date: 16/08/2023

#	TESTS PARAMETERS	SPECIFICATION	RESULTS
1.	Description	White to yellow color to light brown powder	Light yellow powder
2.	Solubility	Sparingly soluble in water & very slightly soluble or insoluble in most organic solvents, soluble in alkaline solution.	Sparingly soluble in water & very slightly soluble or insoluble in most organic solvents, soluble in alkaline solution.
3.	Identification (by HPLC)	The retention time of the major peak in the chromatogram of the sample solution corresponds to that in the chromatogram of standard solution, under the test for assay	The retention time of the major peak in the chromatogram of the sample solution corresponds to that in the chromatogram of standard solution, under the test for assay
4.	Water Content (by KF)	NMT 17.00 % w/w	12.20% w/w
5.	Heavy Metal	NMT 10.0 ppm	< 10ppm
6.	Calcium on anhydrous basis	07.00 % w/w - 08.50 % w/w	7.31%w/w
7.	Purity(As Methyltetrahydrofolate) (by HPLC)	NLT 95.00 %	96.28%
8.	Assay(As Methyltetrahydrofolate)(by HPLC)	NLT 95 % w/w (OAB)	96.60% w/w (OAB)
9.	Total plate count (Cfu/g)	NMT 1000 cfu/g	50cfu/g
10.	Yeast & Molds (Cfu/g)	NMT 100 cfu/g	Absent
11.	E. Coli	Absent/gm	Absent
12.	Salmonella	Absent/10gm	Absent

Test Authority: In House

The above sample meets specification / does not meet specification.

Prepared by <i>[Signature]</i> 16/08/23	Reviewed by <i>[Signature]</i> 16/08/23	Approved by <i>[Signature]</i> 16/08/23
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(A GMP, GLP, ISO 9001:2015 and FSSAI Certified Company)



HERBO NUTRA
Extract Pvt. Ltd.

Think Extract Think Herbo Nutra

CERTIFICATE OF ANALYSIS

PRODUCT NAME: MARIGOLD SOFT EXTRACT 20% (ZEAXANTHIN 4%)	
HS CODE: 13021919	
Batch No	HN/MGLZ/24/04
Mfg Date	Apr 24
Exp Date	Mar 26
Quantity	100 Kg

TEST PARAMETER	SPECIFICATION	Result	PROTOCOL
Botanical name	<i>Tagetes erecta</i>		-
Standardization	Free Lutein & Zeaxanthin		-
Plant part used	Petals of Marigold Flower		-
Description	Orange red free flowing suspension with characteristic odor		Organoleptic
Identification	To Comply by HPLC		MOA/21324
Moisture content	Not more than 3.0%-w/w		USP <921>
Residue on Ignition	Not more than 2.0% w/w		USP <281>
Chemical			
Content of free Lutein by HPLC	Not less than 20.0% w/w	21.27	MOA/21324
Content of Zeaxanthin by HPLC	Not less than 4.0% w/w	4.16	MOA/21324
HEAVY METALS			
	ICP-MS		
Lead	NMT 1.0 ppm	Complies	AOAC 2015.01
Arsenic	NMT 1.0 ppm	Complies	AOAC 2015.01
Cadmium	NMT 1.0 ppm	Complies	AOAC 2015.01
Mercury	NMT 0.1 ppm	Complies	AOAC 2015.01
Microbiological			
Total plate count	NMT 1000 CfU/g	Complies	USP<2021>
Total yeasts and mold count	NMT 100 CfU/g	Complies	USP<2021>
Escherichia coli	Negative /10g	Complies	USP<2022>
Salmonella spp	Negative / 10g	Complies	USP<2022>
Staphylococcus aureus	Negative / 10g	Complies	USP<2022>
Coli forms	Negative /10g	Complies	USP<2021>
Pseudomonas aeruginosa	Negative /10g	Complies	USP<62>

Genetic Modification Status	GMO free
BSE/TSE status	BSE/TSE free
Country of origin	India
Shelf life	24 months when stored in unopened original package at the recommended storage condition.
Packing	25kg of Oil Suspension is poured, packed & sealed in Aluminum bottle. One such bottle is packed in single 50L HDPE shipping container, suitable markings to indicate the shipping container holding the liquid product and direction of stacking is placed on the outer container.
Storage	Store in cool and dry place, protected from heat and light and, oxidation. The recommended storage temperature is below 30°C.

CERTIFICATE OF ANALYSIS

LACTONOVA

PRODUCT NAME	LYCOPRO COMPLEX (LYCOPENE 6% OIL)	SPECIFICATION NO.	QC/RM/RMS/614-00
BATCH. NO.	LYPCL3014	A.R NO.	RM/014/A/23
BATCH SIZE	3500 KG	ANALYSIS COMPLETED ON	09/11/2023
MFG. DATE	NOV-2023	PAGE. NO.	1 of 1
EXP. DATE.	OCT-2025		

S.No	TEST	SPECIFICATION	RESULT
01	Description	Dark red colored oily viscous paste.	Complies
02	Odour	Should be typical.	Complies
03	Moisture content	Not more than 5.0% w/w	Complies
04	Residual solvents	Not more than 0.5% w/w	Less than 0.5%w/w
05	Assay (Lycopene content)	Not less than 6.0%	6.8%
06	Microbial Limits		
	Total plate count	Not more than 1000 CFU/g	Complies
	Yeast and mould	Not more than 100 CFU/g	Complies
	<i>E.coli</i> & <i>Salmonella</i>	Should be absent	Absent
	<i>Pseudomonas aeruginosa</i>	Should be absent	Absent
	<i>Staph. Aureus</i>	Should be absent	Absent

OPINION: The sample complies with above specification

NAME	ANALYSED BY P. MANISHA	CHECKED BY R. PRIYANKA	APPROVED BY R.R.DESHMUKH
DESIGNATION	EXECUTIVE QC	EXECUTIVE QC	MANAGER QC & ADL
SIGN			
DATE	09/11/2023	09/11/2023	09/11/2023

CERTIFICATE OF ANALYSIS

NAME OF PRODUCT: MANGANESE SULFATE MONOHYDRATE	
GRADE.: BP	CAS NO.: 10034-96-5
BATCH NO.: VPF00624	AR NO.: FVVPF00624
MFG. DATE: JUN - 24	EXP. DATE.: MAY - 27
MOLECULAR WEIGHT.: 169.0gm/mol	MOLECULAR FORMULA.: MnSO ₄ , H ₂ O
SUPPLY QUANTITY.: 25 KG	PAGE NO.: 1 of 1

Sr. No	TEST	SPECIFICATION	RESULT
1.	Description	Pale pink crystalline powder, slightly hygroscopic	Pale pink crystalline powder, slightly hygroscopic.
2.	Solubility	Freely soluble in water, practically insoluble in ethanol (96 per cent).	Complies
3.	Identification	A. Solution S gives reaction (a) of sulfates. B. Dissolve 50 mg in 5 mL of water R. Add 0.5 mL of sodium sulfide solution R A pale pink precipitate is formed which dissolves on the addition of 1 mL of anhydrous acetic acid R C. Loss on ignition.	A.Complies B.Complies C.Complies
4.	Appearance of solution	Solution S is not more opalescent than reference suspension II	Complies
5.	Chloride	Maximum 100 ppm.	<100 ppm
6.	Iron	Maximum 10 ppm, (determined on solution S.)	<10 ppm
7.	Zinc	Maximum 50 ppm.	< 50 ppm.
8.	Loss on ignition (Determined on 1.00 g at 500 ± 50 °C.	10.0 per cent to 12.0 per cent	11.0 per cent
9.	Assay (Ignited substance).	99.0 per cent to 101.0 per cent	99.3 %

Conclusion: The above referred sample complies / doesn't complies as per BP Specification.

	Prepared By	Reviewed By	Approved By
Signature			
Date	08/06/24	08/06/24	08/06/24



WESTERN DRUGS LIMITED

F-271 (A), Mewar Industrial Area, Madri, Udaipur - 313003 (Raj.), India.
Phone: +91-294-2490976; 2490042; Fax: +91-294-2490676;
Email: infoudaipur@westerndrugs.com; Website: www.westerndrugs.com

CERTIFICATE OF ANALYSIS

HSN CODE: 29362920

Purchase Order No.	Date	Our Reference No.	C. O. A. Date	Lab Register Page No.
BSCPL/RM/23-24/316	17.01.2024	SAL. ADV. NO.- 743 DATE: 23.01.2024	23.01.2024	23-24/01/206
Name of Product	Lot No.	Date of Manufacturing:	Date of Expiry:	Date of Analysis:
NICOTINAMIDE BP	23-24/NMD[C]/00203	OCT. - 2023	SEP. - 2028	22.10.2023
Tests	BP 2023		Results	
Appearance	White or almost white, crystalline material or colourless crystals		White crystalline material	
Solubility	Freely soluble in water and in anhydrous ethanol, slightly soluble in methylene chloride.		Complies	
Identification: -				
A. Melting point	128° to 131° C		130.5° C	
B. IR Test	IR spectrum to match with Reference standard		Matches	
C. By TLC	Principal spot in test solution is similar in position & size to the reference solution		Complies	
Appearance of 5% w/v Solution	Clear and not more intense than BY ₇		Complies	
pH of 5% w/v Solution	6.0 to 7.5		7.30	
Related Substances (By HPLC)	Unspecified impurities (NMT 0.10%), Total impurities (NMT 0.2%)		Complies	
Loss on Drying	≤ 0.5% w/w		0.25 %w/w	
Sulphated Ash / Residue on Ignition	≤ 0.1% w/w		0.03 %w/w	
Assay (On Dried Basis):				
A. By Potentiometry	99.0 to 101.0 % w/w		99.37 %w/w	

REPORT: Certified that the material referred above confirms to the following specifications:

1. Manufacturing specifications of WDL.
2. BP 2023 for Niacinamide (Nicotinamide).

N. SINGH

(Approved Chemist)

PUSHPKANT AMETA
QA-EXECUTIVE

BIN NO.: AAACW2424PFT001

Page 1 of 1

HEAD OFFICE: Gala No. 321, 3rd Floor, Tantia-Jogani Ind. Prem. Co-op. Soc. Ltd. Sitaram Mills Compound, J.R. Boricha Marg, Mumbai-400 011, INDIA. Tele Nos. Board Line : +91 22 6123 2000; Fax No. : +91 22 6123 2030;
E-mail: sales@westerndrugs.com

CERTIFICATE OF ANALYSIS

Product name	: Fish oil	Batch no	: Z 3318 EE/2306/B-11
Product code	: Z 3318 EE	Quantity	: 163 Kg
COA No	: KB230600293	Mfg. Date	: 27/06/2023
Coa Issue date	: 28/06/2023	Exp. Date	: 26/06/2026

Description	Specification	Result
Physical tests		
Colour and appearance	Pale yellow to yellow clear liquid	Yellow clear liquid
Odour	Less fishy	Less fishy
Foreign substances	Absent	Absent
Chemical Tests		
Iodine value	250 - 300	265.05
Acid value (mg KOH/g)	Not more than 3.0	0.85
Free fatty acid	Not More than 1.5	0.43
Peroxide value (meq/kg)	Not more than 5	2.60
P-Anisidine value	Not more than 30	10.81
Unsaponifiable matter	Not more than 1.5%	0.12
Fatty acid profile (GC method)		
EPA (Eicosapentaenoic acid - C20:5 n3)	NLT 32.5%	33.25
DHA (Docosahexaenoic acid - C22:6 n3)	NLT 17.5%	17.75
Total omega-3 fatty acids	NLT 55%	58.11
<i>Total Omega-3 acids includes: C20:5 n3, C22:6 n3, C18:3 n3, C18:4 n3, C20:4 n3, C21:5 n3, C22:5 n3.</i>		
Heavy Metals¹		
Arsenic (As)	NMT 1.1 mg/kg	Complies
Cadmium (Cd)	NMT 0.1 mg/kg	Complies
Lead (Pb)	NMT 0.5 mg/kg	Complies
Mercury (Hg)	NMT 0.1 mg/kg	Complies
Pesticide analysis¹		
PCBs (IUPAC No 28,52,101,138,153,180)	NMT 0.09 mg/kg	Not detected
DDT	NMT 0.05 mg/kg	Not detected
BHC	NMT 0.05 mg/kg	Not detected
Endosulfan	NMT 0.05 mg/kg	Not detected
Chlorpyrifos	NMT 0.05 mg/kg	Not detected
Ethion	NMT 0.05 mg/kg	Not detected
Aldrin/Dieldrin	NMT 0.05 mg/kg	Not detected
	Prepared by	Approved by
Signature		
Name	Saravanan. V	Manikandan. P
Designation	Chemist	Deputy Manager-QC
1. Heavy Metals and Pesticides are tested once in 6 months by an independent laboratory.		
Added Anti-oxidants: On input: Mixed tocopherol - Natural [Non-GMO] 800 ppm and TBHQ 200 ppm added in this product.		
Packing: The material will be delivered in clean, airtight and food grade 10Kg, 25 Kg pail and 190 kg drum with seal cap. All the drums will be sealed under nitrogen blanket.		
Storage: Keep closed in sealed containers protect from light, air, heat and moisture. Preferable storage temperature is between 22°C -30°C.		
Shelf life: 36 months. Shelf life is guaranteed if the product is stored unopened in original closed containers protected from heat and light		

Z3318 EE/2306/B-11

Page 1 Doc ID: QCS-210q, Rev No: 02/01, Rev Date: 12/04/2022

Arjuna Natural Pvt. Ltd.
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+91 484 4080400
mail@arjunanatural.com

www.arjunanatural.com
CIN: U24239KL1992PTC006670



fssai

CERTIFICATE OF ANALYSIS

QUALITY CONTROL DEPARTMENT	
Product Name	Potassium Iodide IP
Country of origin	India
Cas Number	7681-11-0
HS Code	28276010
Molecular Formula	KI
Molecular Weight(M.W)	166
Batch No.	P/PI/2023/12/045
Batch Qty.	350.0 kgs
Mfg. Date:	Dec.-2023
Expiry date:	Nov.-2024
Date of sampling	09/12/2023
Date of completion of Analysis	09/12/2023

TEST	SPECIFICATION	RESULTS
Description	Colourless crystals or a white powder; odourless .	A white powder; odourless .
Solubility	Very soluble in water, freely soluble in glycerin, soluble in ethanol 95.0 %	Complies the test
Identification	The solution gives the reaction of potassium salts , and of iodides.	Complies the test
Appearance of solution	Solution A is clear and colourless.	Clear and colourless
Alkalinity	No colour is produced on addition of drop of a phenolphthalein solution	Complies the test
Arsenic	NMT 2 ppm	Not detected
Heavy metals	NMT 10 ppm	Less than 10 ppm
Iron	NMT 20 ppm	Less than 20 ppm
Barium	No turbidity develops within one min.	Complies the test
Cyanide	No blue colour produced	Complies the test
Iodate	No blue colour is produced within 2 min.	Complies the test
Sulphate	NMT 150 ppm	Less than 150 ppm
Thiosulphate	A blue colour is produced.	Complies the test
Loss on drying	NMT 1.0 %	0.36 %
Assay (on dried basis)	NLT 99.0 % and NMT 100.5 % of KI	99.34 %

REMARK: THE SAMPLE COLLECTED FOR ABOVE PRODUCT COMPLIES WITH IP SPECIFICATION.

ANALYSED BY: *Khushi*
QC Chemist: Khushbu Kolhe
09/12/2023

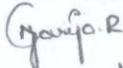


APPROVED BY: *QMM*
QA Head: Swati Chaudhari
09/12/2023

Factory : E-121, MIDC, Tarapur, Boisar-401506. Dist. Palghar
Maharashtra, India.

CERTIFICATE OF ANALYSIS

Product name : PYRIDOXAL-5-PHOSPHATE
Batch Number : A102320688
Analytical Reference number : AR1023040000965
Batch size : 499.600 KG
Date of manufacture : 15.07.2023
Retest period : 14.07.2027

Sl. No.	TESTS	RESULTS	SPECIFICATIONS
Physical Parameters :			
1.	Description	Complies	Slightly yellow or off white powder.
2.	Solubility	Complies	Sparingly Soluble in water and Soluble in Alkali (-OH) Solution.
3.	Melting point	Complies	140.0°C to 145.0°C.
4.	Particle size	Complies	100% Pass through 30 mesh.
5.	pH (in 0.25% Water)	2.94	2.60 to 3.00
6.	Bulk Density (g/mL)	0.57	Between 0.35 to 0.6
Chemical Parameters :			
7.	Water content	8.5	Not more than 10.00 % w/w.
8.	Heavy metals	Complies	Not more than 10 PPM.
9.	Pyridoxine HCl Content	Complies	Less than 0.5 %.
10.	Identification by HPLC	Complies	The retention time of the peak in the chromatogram of the sample preparation corresponds to that of the peak due to Pyridoxal -5- phosphate in the chromatogram of the standard preparation, as obtained in the assay.
11.	Assay (By HPLC) on anhydrous basis	99.3	98.5 % to 101.0% (% w/w).

Prepared by:	Checked by:	Approved by:
Signature: 	Signature: 	Signature: 
Date: (dd/mm/yyyy) 09/10/2023	Date: (dd/mm/yyyy) 09/10/2023	Date: (dd/mm/yyyy) 09/10/2023

CERTIFICATE OF ANALYSIS

Product name : PYRIDOXAL-5-PHOSPHATE
Batch Number : A102320688
Analytical Reference number : AR1023040000965
Batch size : 499.600 KG
Date of manufacture : 15.07.2023
Retest period : 14.07.2027

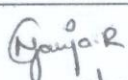

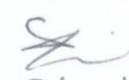
Microbiological Parameters :

12.	TAMC	30	Not more than 1000 CFU/g.
13.	TYMC	<10	Not more than 100 CFU/g.
14.	<i>E.coli</i>	Absent	Should be Absent/10g.
15.	<i>salmonella</i>	Absent	Should be Absent/10g.

Storage Conditions: Store in a tightly closed light resistant container not exceeding 30°C.

Remarks: The material complies as per the above specification.

Special Note: 1. For use in dietary supplement. 2. Manufactured by: Shanghai Jinli Pharmaceutical Co. Ltd., 108# Yuegong Road Caojing, Jinshan Shanghai 201507, China. Manufacturer Batch Number: C042307808

Prepared by:	Checked by:	Approved by:
Signature:  Date: (dd/mm/yyyy) 09/10/2023	Signature:  Date: (dd/mm/yyyy) 09/10/2023	Signature:  Date: (dd/mm/yyyy) 09/10/2023



HALOGENS

Block No. 511, Near Lasundra Stand,
Savli Road, TUNDAV - 391 775
Tal. : Savli, Dist. : Vadodara.
Tele. : (02667) 262308, 293408, 293409
Fax : (02667) 262308
E-mail : halogens2003@yahoo.co.in

CERTIFICATE OF ANALYSIS

Name of Product	SODIUM MOLYBDATE DIHYDRATE BP	Date	18.01.2024
Batch No.	231254	Mfg. Month	DEC.2023
Qty.	2 KG	Exp. Month	NOV.2028
		Qty of Sample	25 gms.

MFG. DRUG LIC. NO. G/25/1795


CAS NO. : 10102- 40 - 6

F. Wt. : 241.90

RESULTS OF ANALYSIS

<u>TEST</u>	<u>LIMIT</u>	<u>OBSERVATION</u>
Apperance	White or almost white powder or colorless crystal	White or almost white powder or colorless crystal
Solubility	Freely Soluble in water	Freely Soluble in water
Identification	A : Loss on drying. B : A yellow precipitate is formed. C : The solution gives reaction of sodium.	Complies Complies Complies
Apperance of Solution	Solution S is Clear & Colorless	Clear & Colorless
Chloride (Cl)	Max. 50 PPM	< 30 PPM
Phosphate	Max. 200 PPM	< 100 PPM
Ammonium	Max. 10 PPM	< 5 PPM
Loss on Drying	14.0 - 16.0%	14.86%
Assay (dried substances)	98.0 - 100.5 %	99.74%

The Sample complies with prescribed standards :


Checked By


Laboratory In Charge



AOS PRODUCTS PRIVATE LIMITED

AN ISO 9001-2015 and GMP Accredited Company

S - 33, South Side GT Road Industrial Area, Ghaziabad 201009, U.P, India

Telephone: +91 120 4106666. 4287170 - 76 Fax No.: + 91 120 4287171.

E-Mail: aosproduct@gmail.com, abhilash@indiannaturaloils.com.

URL: www.indiannaturaloils.com, www.aosproduct.com

Control Ref. No.: AOS/EO/2070/2023

Analysis Report

Product : Soyabean Oil
Lot No. : SOY/031123(AG)
Qty. Supplied : 50.000kgs
Date of Mfg. : 03.11.2023
Best Before : 02.11.2025
Testing Protocol : BP

TEST	STANDARD	RESULT
Description	A clear pale-yellow liquid.	Complies
Solubility	Miscible with light petroleum (bp: 50°C to 70°C). Practically insoluble in ethanol (96%).	Complies
Refractive Index	About 1.475	1.4743
Relative Density	About 0.922	0.9206
Identification by TLC	The chromatogram obtained is similar to the typical chromatogram for soya-bean oil	Complies
Acid value	Max. 0.5	0.25%
Peroxide value	Max. 10	0.51%
Unsaponifiable matter	Max. 1.5	0.62%
Alkaline impurities	Not more than 0.1ml of 0.01M hydrochloric acid is required to change the colour of the upper layer to yellow.	Complies
Composition		
Saturated fatty acid of chain length less than C-14	Max. 0.1%	Complies
Myristic	Max. 0.2	nil
Palmitic	9% - 13%	11.53%
Palmitoleic	Max. 0.3%	0.19%
Stearic	2.5% - 5.0%	4.23%
Oleic	17% - 30%	22.89%
Linoleic	48% - 58%	51.67%
Linolenic	5% - 11%	5.57%
Arachidic	Max. 1.0%	0.42%
Eicosenoic	Max. 1.0%	Nil
Behenic	Max. 1.0%	Nil
Brassicasterol	Max. 0.3%	Nil
Water	Max. 0.1	0.001%
Storage	In well fitted container in cool & dark place.	

Date of Release: 28.12.2023


Analyst


Q.C. Incharge



PROCESS AGROCHEM INDUSTRIES PVT. LTD.

Certificate of Analysis

Manufacturer	Process Agrochem Industries Pvt Ltd Khasra # 55/2/2, Halka # 27, Shiv Nagar Tehsil Mhow, Khandwa Road Indore - 452020 (MP) India
Sample Details	Soya Lecithin Liquid Lot No.: AP-2401-02 Manufacturing Date: January 2024 Expiry Date: 36 Months from Mfg.
Testing Details	Quantity Tested: 1500 Grams

Chemical Analysis:

Parameters	Standards	Test Result
Acetone Insoluble	Min. 60%	61.11%
Acid Value	Max. 30 mg KOH/g	28.20 mg KOH/g
Moisture	Max. 1%	0.81%
Peroxide Value	Max. 3 meqO ₂ /kg	0.79 meqO ₂ /kg
Heavy Metals (Lead/ Arsenic)	Max 10 mg/kg	Not Detected

Microbiological Analysis:

Parameters	Standards	Test Result
Yeast & Molds	Max. 100cfu/g	Absent
E. Coli	Absent/g	Absent
Salmonella	Absent/25g	Absent
Total Plate Count	Max. 1000cfu/g	860cfu/g

Physical Properties:

Parameters	Standards	Test Result
Colour	Yellow to Light Brown	Pass
Odor	Specific Soyabean	Pass
Texture	Free Fluid Liquid	Pass

Checked by: 

Authorized By:



Office : A-54, Brij Nayani Nagar, Khandwa Road, Limbodi, Indore - 452001 (M.P.), India

Works : P. Halka #: 27, Khasra #: 55/2/2, Shiv Nagar, Teh - Mhow, Indore - 452020 (M.P.), India

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华中药业
HUAZHONG PHARMA.

华中药业股份有限公司

HUAZHONG PHARMACEUTICAL CO., LTD

Add: No.118 XianShan Road,
Xiangyang, Hubei, China ,
Tel:+86-710-3150034
Fax:+86-710-3150684

CERTIFICATE OF ANALYSIS

Product Name: THIAMINE MONONITRATE (VITAMIN B1 MONONITRATE) Batch No.: Y02202312002

Manufacturing Date: DEC.01,2023 Reporting Date: DEC.20,2023

Expiry Date: NOV.30,2026 Quantity: 2500KGS

Specification: BP2023/USP2023/IP2022

Test Item	Specification	Result
Appearance	white or almost white crystalline powder or colourless crystals	White crystalline powder
Solubility test	Sparingly soluble in water, freely soluble in boiling water, slightly soluble in ethanol(96 percent), practically insoluble in heptane	Meets the requirement
Identification	(1) should be positive reaction (2) Consistent with the reference IR spectra	(1) positive reaction (2) Consistent with the reference IR spectra
PH	6.8~7.5	7.2
Appearance of solution	clear, not more intense than Y7	clear, not more intense than Y7
Heavy metals	NMT20ppm	<20ppm
Chloride	NMT250ppm	<250ppm
Loss on drying	NMT 1.0%	0.2%
Sulphate Ash	NMT 0.1%	0.04%
Residual Solvents		
---Methanol	NMT0.3%	<0.3%
---Ethanol	NMT0.5%	<0.5%
Related substances (Disregard limit 0.05%)		
---Impurity A	NMT0.15%	0.09%
---Impurity B	NMT0.6%	0.01%
---Impurity C	NMT0.4%	0.01%
---Any impurity	NMT0.10%	0.02%
---Total impurities	NMT1.0%	0.23%
Assay	98.0~101.0%	99.7%

Conclusion: This batch complies with the specification of BP2023/USP2023/IP2022

Report by: KE LEI

Approved by:





FERMENTA BIOTECH LIMITED

Village-Takoli, Post Office-Nagwain, Dist.- Mandi 175121, Himachal Pradesh, India

Fermenta Biotech Limited Tel: 91-1906-287246 Email: info@fermentabiotech.com Website: www.fermentabiotech.com

CERTIFICATE OF ANALYSIS (Finished Product)

Product : Cholecalciferol (IP)
(Vitamin D₃ 40 MIU/g)
Inspection Lot No. : 40000066262
Date of Mfg. : May, 2024
Re-test date :
Country of Origin : India

Batch No. : CHL0424063
Date of Release : 31.05.2024
Expiry date : April, 2027
Batch Size : 32.500 KG

TEST	SPECIFICATION	RESULTS
Description		
Description	White or almost white crystals.	White crystals.
Identification		
INFRARED ABSORPTION	Infra-red absorption spectrum of test sample shall be in concordant with the reference spectrum of Cholecalciferol standard.	Complies
Solubility		
Solubility	Freely soluble in ethanol (95 per cent), in acetone, in chloroform and in ether, practically insoluble in water. It is soluble in fixed oils.	Complies
Specific optical Rotation		
Specific Optical Rotation	105 to 112 °	106 °
U.V. Absorptiometric Determination		
Light absorption at 265nm of 0.001% Solution in ethanol	0.46 to 0.50	0.49
7-DEHYDROCHOLESTEROL		

Prepared by
Kapil Kumar
31.05.2024 12:21:49 IST +05:30
Assistant Manager - QC

Checked by
Rajeev Kumar
31.05.2024 12:49:42 IST +05:30
Assistant Manager - QA

APPROVED BY
Ashish Sood
31.05.2024 13:12:44 IST +05:30
Manager - QA

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Printed By :Rajeev Kumar

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**FERMENTA BIOTECH LIMITED**

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Fermenta Biotech Limited Tel: 91-1905-287246 Email: info@fermentabiotech.com Website: www.fermentabiotech.com

**CERTIFICATE OF ANALYSIS
(Finished Product)**

Product : Cholecalciferol (IP)
(Vitamin D3 40 MIU/g)
Batch No. : CHL0424063
Inspection Lot No. : 40000066262
Date of Release : 31.05.2024
Date of Mfg. : May, 2024
Expiry date : April, 2027
Retest date :
Batch Size : 32.500 KG
Country of Origin : India

TEST	SPECIFICATION	RESULTS
7-DEHYDROCHOLESTEROL	In the chromatogram obtained with the test solution any violet spot with an Rf value slightly lower than that of the principal spot (due to 7- Dehydrocholesterol and appearing slowly) shall not be more intense than the spot in the chromatogram obtained with reference solution (a).	Complies
Assay		
HPLC	97.0 to 103.0 %	100.0 %
Residual solvents		
Methanol	Maximum 1000 ppm	<6.00 ppm
Ethanol	Maximum 1000 ppm	<10.00 ppm
Pyridine	Maximum 100 ppm	<4.00 ppm
Methyl Formate	Maximum 1000 ppm	98.47 ppm
Petroleum Ether	Maximum 290 ppm	2.45 ppm
Acetone	Maximum 1000 ppm	21.13 ppm
Benzene	Maximum 2 ppm	<0.2 ppm

Conclusion: Product complies to all above parameters w.r.t ANS/FG/001.

Prepared by
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Assistant Manager - QC

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Rajeev Kumar
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Matrix Life Science Private Limited

(Formerly Matrix Fine Sciences Pvt. Ltd.)

Innovate Sciences Life

CIN : U24233MH2013PTC243185

Ref. Specification No. : MLS/QCD/SPEC/FP/017-04

Product Code : Naturali-e SO-T50	Product Name : Natural Mixed Tocopherol 50% Non-GMO Soy (IP)
Batch Number : MLS/SO/PNMT50/05/24/005	A.R. Number : FP/24/0173
Manufacturing Date: May-2024	Expiry Date : Apr-2027
Product Origin: INDIA	Analysis Date : 12/05/2024

Certificate of Analysis

Parameter	Specification	Method	Result
A. Physical			
Appearance	A clear yellow to brownish red viscous oil	In house	Conforms
Odor	Mild odor	In house	Conforms
B. Quality Control Data			
Identification A	Bright red to orange colour develops	FCC	Conforms
Identification B	Retention time of the major peak in the sample corresponds to the standard	By HPLC	Conforms
Total Tocopherol	Min. 50.00 %	By HPLC	50.18
C. Additional Technical Data			
Acidity (ml 0.1N NaOH/g)	Max. 1.0 ml	FCC	0.91
Specific Rotation $[\alpha]_D^{25}$	NLT +20 °	FCC	Conforms
Relative Density (20/20 °C)	0.90 – 0.96	In House	0.940
D. Contaminants			
Residual Solvents	Meets current USP	USP	Conforms
*Heavy Metals	Max. 5.0 ppm	By ICP-MS	Certified
*Arsenic	Max. 0.2 ppm	By ICP-MS	Certified
*Lead	Max. 0.5 ppm	By ICP-MS	Certified
*Mercury	Max. 0.1 ppm	By ICP-MS	Certified
*Cadmium	Max. 0.2 ppm	By ICP-MS	Certified
E. Microbial Testing			
*Total Plate Count	Max.1000 (cfu/g)	ISO 4833-1:2013	Certified
*Yeast & Moulds	Max.100 (cfu/g)	ISO 21527-1:2008	Certified
*Coliforms	Max.10 (cfu/g)	ISO 4832:2006	Certified
*E. Coli	Absent (cfu/10g)	ISO 16649-2:2001	Certified
*S. Aureus	Absent (cfu/10g)	ISO 6888-1: 2021	Certified
*Pseudomonas aeruginosa	Absent (cfu/10g)	ISO 12780:2011	Certified
*Salmonella	Absent (cfu/25g)	ISO 6579-1:2017	Certified
*Enterobacteriaceae	Absent (cfu/25g)	ISO 21528 : 2017	Certified

Note: The product meets current FCC monograph when tested accordingly.

(*)Tests performed twice in a year and Certified based on statistically designed data analysis.

Storage Condition: Store at ambient temperature away from sunlight.

Prepared By:
(Officer/Designee-QC)

Checked By:
(Manager/Designee-QC)

Approved By:
(Manager/Designee-QA)



Regd. Office : 12, Shilp Nagar, Railway Station Road, Aurangabad - 431 005 (M. S.) INDIA.

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For QC & R&D Use Only



SHREE GIRI CORPORATION

'Process of Specialty Wax'

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CERTIFICATE OF ANALYSIS

Customer: **Chemopack Trading Corporation**
Product Name: Beeswax
Batch No: 055 (Lot Size: 300 Kgs)
Mfg. Date: 20/04/2024
Invoice No: 2024-25/123 (Dt.24/04/2024)
Exp. Date: 5 years from the production date

Analytical Tests	Specification	Observations (Results)
Description	Yellow or white color slab with fine-grained matt, non-crystalline fracture.	A white color soft mass with non-crystalline fracture.
Solubility	Partially soluble in hot ethanol (90 percent) and in ether. Practically insoluble in water, completely soluble in volatile and fixed oils.	Complies
Odour	Faint and Characteristics	Faint and Characteristics
Acid Value	5 - 15 (Mg KOH/G)	9.25
Ester Value	75 - 95 (Mg KOH/G)	83.85
Saponification Value	87 - 104 (Mg KOH/G)	93.10
Drop point	61°C - 65°C	62°C
Ratio	5 - 19	9.06
Fats, Fatty Acid, Japan Wax and Resin	Complies	Complies
Ceresin, paraffin and other waxes	Complies	Complies
Glycerol and other polyols	Complies	Complies

*This product complies with IP specifications.

For Shree Giri Corporation


Authorized Signatory

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Neelkanth Finechem LLP

MINERALS & CHEMICALS MANUFACTURERS

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Lab Section

CERTIFICATE OF ANALYSIS

PRODUCT NAME Zinc Oxide USP			Test Report No. - USP-O-117
B.NO.	USP-O-117	Analysing Date-	24-05-2023
Mfg. Date	May 2023	Sample Receiving Date-	15-05-2023
Exp. Date	April 2028	Manufacturer/ Party--	Neelkanth Finechem LLP Jodhpur (Raj.) India

TEST RESULTS

S. NO	TEST PERFORMED	LIMIT	RESULTS
1	DESCRIPTION	Very fine, odourless, amorphous, white or yellowish white Powder. Free from gritty particles. It gradually absorbs carbon dioxide from air.	COMPLIES
2	SOLUBILITY	Soluble in dilute acids, insoluble in water and in alcohol.	COMPLIES
3	IDENTIFICATION	A) It gives yellow when strongly heated, the yellow color disappear on cooling. B) The retention time of the zinc peak of the sample solution corresponds to that of the standard solution, as obtained in the Assay test.	COMPLIES
4	ALKALINITY	Mix 1 g with 10 ml of hot water and add 2 drops of phenolphthalein solution if a red color is produced, NMT 0.3 ml of 0.1 N Hcl is required to discharge it.	COMPLIES
5	IRON & OTHER HEAVY METALS	As per USP.	COMPLIES
6	CARBONATES AND COLOR OF SOL.	No effervescences occurs and the resulting sol. is clear and colorless.	COMPLIES
7	ARSENIC	NMT 6ppm	COMPLIES
8	LEAD	Dissolve 2 gm with 20 ml of water and 5ml of glacial acetic acid and add 5 drops of potassium chromate solution, the sol. remains clear.	COMPLIES
9	LOSS ON IGNATION	NMT 1.0%	0.24%
10	ASSAY	NLT 98% & NMT 102%	99.74%
REMARK - The above material passes as per U.S.P. 43 Specification.			


ANALYTICAL CHEMIST

MFG. CHEMIST