



CERTIFICATE OF ANALYSIS

Product: Ashwagandha (Withania somnifera) — root extract / powder

Sample date (drawn): 11 April 2026

Testing completed: 18 April 2026

Report ref.: BB-COA-ASH-20260418

Analytical summary

Parameter	Specification	Result	Method / ref.
Appearance	Brown powder; characteristic odour	Complies	Organoleptic
Identification	Positive for Withania somnifera (HPTLC / HPLC)	Complies	In-house / USP
Loss on drying	NMT 6.0% w/w	2.1% w/w	USP <731>
Total ash	NMT 8.0% w/w	5.4% w/w	USP <561>
Assay (withanolides)	NLT 2.5% w/w (HPLC)	3.1% w/w	HPLC

Scope note: The adulterant screening, heavy-metal, aflatoxin, pesticide-residue, and microbiological panels below are included for this Ashwagandha (botanical powder / extract) lot under our FSSAI-aligned botanical safety scope. Status "Pass" applies only where the test is listed for this product.

Adulterant screening (FSSAI manual)

S. No.	Parameter	Test result	Status	Protocol
1	Sand content	Absent	Pass	FSSAI manual
2	Added colour	Absent	Pass	FSSAI manual
3	Artificial flavour	Absent	Pass	FSSAI manual
4	Black extraneous matter	Absent	Pass	FSSAI manual
5	Rice bran powder	Absent	Pass	FSSAI manual
6	Sudan dye	Absent	Pass	FSSAI manual
7	Metanil yellow	Absent	Pass	FSSAI manual

Heavy metal analysis

S. No.	Parameter	Test result	Unit	Limits	Status	Protocol
1	Lead	< 0.04	mg/kg	1.50 mg/kg	Pass	LAB/SOP-AAS
2	Arsenic	< 0.03	mg/kg	1.50 mg/kg	Pass	LAB/SOP-AAS
3	Cadmium	< 0.05	mg/kg	1.50 mg/kg	Pass	LAB/SOP-AAS
4	Mercury	< 0.02	mg/kg	1.50 mg/kg	Pass	LAB/SOP-AAS
5	Ethylene oxide	Not detected	—	Absent	Pass	LAB/SOP-GC-FID

Aflatoxin analysis

S. No.	Parameter	Test result	Unit	Limits	Status	Protocol
1	Aflatoxin B1	≤ 0.90	µg/kg	≤ 5 µg/kg	Pass	HPLC
2	Aflatoxin B1+B2+G1+G2	≤ 1.48	µg/kg	≤ 10 µg/kg	Pass	HPLC

Chemical analysis — pesticide residue

S. No.	Parameter	Test result	Unit	Limits	Status	Protocol
1	Total pesticides residue	0.03	mg/kg	0.05 mg/kg	Pass	HPLC



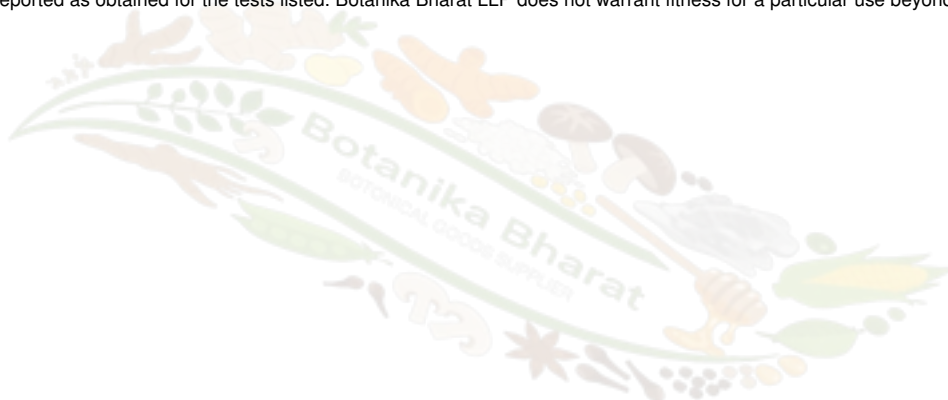
Microbiological analysis

S. No.	Parameter	Test result	Unit	Limit	Status	Protocol
1	Total bacterial count	2.0	cfu/g	10 cfu/g	Pass	IS 5402 (Part 1) : 2021
2	Salmonella	Absent	per 25 g	Absent / 25 g	Pass	IS 5887 (Part 3) : 1999 (RA 2022)
3	Yeast & mould	Absent	cfu/g	Absent / g	Pass	IS 5403 : 1993 (RA 2018)

Instruction / note

1. This certificate applies only to the batch or sample identified in this report; do not infer suitability for other lots or blends.
2. Store the material as per your internal SOP and the product label (typically cool, dry, away from direct sunlight and odours) unless a different storage condition is contractually agreed.
3. This document is invalid if altered, defaced, or reproduced without written authorisation from Botanika Bharat LLP.
4. For technical or quality queries, quote the report reference, batch number, and date of issue.
5. Analytical results relate to the tests stated; interpretation for finished product compliance remains the responsibility of the user.

Disclaimer: Values are reported as obtained for the tests listed. Botanika Bharat LLP does not warrant fitness for a particular use beyond the scope of this certificate.



Authorised signatory

**CERTIFICATE OF ANALYSIS****Product: Ashwagandha (Withania somnifera) - root extract / powder**

Report ref.: BB-COA-ASH-USUK-2026501

Report ID: BBLLP/ASH/USUK/2026/501

Batch / lot no.: B-ASH-26-07

Sample ID: ASH-USUK-26-001

Sample date (drawn): 10 April 2026

Date of sample submission: 11 April 2026

Date received at lab: 12 April 2026

Analysis period: 12 April 2026 to 19 April 2026

Date of issue: 19 April 2026

Analytical summary

Parameter	Specification	Result	Method / ref.
Appearance	Brown powder; characteristic odour	Complies	Organoleptic
Identification	Positive for Withania somnifera	Complies	HPTLC / HPLC
Loss on drying	NMT 6.0% w/w	2.0% w/w	USP <731>
Total ash	NMT 8.0% w/w	5.1% w/w	USP <561>
Assay (withanolides)	NLT 2.5% w/w	3.0% w/w	HPLC

Adulterant screening

S. No.	Parameter	Test result	Status	Protocol
1	Sand content	Absent	Pass	FSSAI manual
2	Added colour	Absent	Pass	FSSAI manual
3	Artificial flavour	Absent	Pass	FSSAI manual
4	Black extraneous matter	Absent	Pass	FSSAI manual
5	Rice bran powder	Absent	Pass	FSSAI manual
6	Sudan dye	Absent	Pass	FSSAI manual
7	Metanil yellow	Absent	Pass	FSSAI manual

Heavy metal analysis

S. No.	Parameter	Test result	Unit	Limit	Status	Protocol
1	Lead	0.03	mg/kg	< 3.0 mg/kg	Pass	ICP-MS / USP <233>
2	Arsenic	0.020	mg/kg	< 1.0 mg/kg	Pass	ICP-MS / USP <233>
3	Cadmium	0.040	mg/kg	< 0.5 mg/kg	Pass	ICP-MS / USP <233>
4	Mercury	0.010	mg/kg	< 0.1 mg/kg	Pass	ICP-MS / USP <233>
5	Ethylene oxide	Not detected	-	Absent / LOQ	Pass	GC-MS

Mycotoxin and pesticide profile

Parameter	Result	Unit	Limit	Status	Protocol
Aflatoxin B1	<= 0.70	ug/kg	<= 5 ug/kg	Pass	HPLC-FLD
Aflatoxin total (B1+B2+G1+G2)	<= 1.30	ug/kg	<= 10 ug/kg	Pass	HPLC-FLD
Ochratoxin A	7	ug/kg	<= 15 ug/kg	Pass	HPLC
Total pesticide residue	0.020	mg/kg	<= 0.05 mg/kg	Pass	LC-MS/MS

Microbiological analysis (US/UK importer panel)



Microbiological analysis (US/UK importer panel)

Parameter	Test result	Unit	Limit	Status	Protocol
Total aerobic microbial count (TAMC)	< 1200	cfu/g	< 100000 cfu/g	Pass	USP <2021>
Total yeast & mould count (TYMC)	< 120	cfu/g	< 10000 cfu/g	Pass	USP <2021>
E. coli	Absent	per 1 g	Absent	Pass	USP <2022>
Salmonella spp.	Absent	per 10 g	Absent	Pass	USP <2022>
Staphylococcus aureus	Absent	per 1 g	Absent	Pass	USP <2022>

Residual solvent profile (extract process control)

Parameter	Result	Unit	Limit	Status	Protocol
Ethanol	980	ppm	< 5000 ppm	Pass	USP <467>
Methanol	88	ppm	< 3000 ppm	Pass	USP <467>
Acetone	420	ppm	< 5000 ppm	Pass	USP <467>
n-Hexane	35	ppm	< 290 ppm	Pass	USP <467>

US / UK market-facing compliance reference matrix

Region	Regulatory reference	Control area	Conformance note	Status
USA	21 CFR Part 111	Dietary supplement cGMP documentation	Batch traceability and QC release reviewed	Conforms
USA	USP <2021> / <2022>	Microbial limits and specified pathogens	Panel completed within acceptance criteria	Conforms
USA	USP <233> / ICH Q3D	Elemental impurities	Pb/As/Cd/Hg below importer limits	Conforms
UK	Retained EU Reg. 2023/915	Food contaminant framework	Mycotoxin and contaminant profile acceptable	Conforms
UK	Reg. (EC) 396/2005	Pesticide MRL context	Screening indicates compliant residue profile	Conforms

Remarks, instruction and disclaimer

Certification status: PASSED.

NABL remark: The analyzed Ashwagandha sample is compliant with the tested heavy-metal, microbial, mycotoxin, and residual-solvent controls generally requested by US and UK nutraceutical import channels. Identity and assay support the declared botanical profile and potency.

Instruction / note: This certificate applies only to the stated lot and sampling event. For technical queries, cite report ID, batch no., and sample ID.

Reproduction must be complete and unaltered.

Disclaimer: Values reflect tests performed for this report scope only; fitness-for-purpose decisions remain with the buyer.



Authorised signatory

**CERTIFICATE OF ANALYSIS****Product: Ashwagandha (Withania somnifera) - root extract / powder**

Report ref.: BB-COA-ASH-USUK-2026502

Report ID: BBLLP/ASH/USUK/2026/502

Batch / lot no.: B-ASH-26-08

Sample ID: ASH-USUK-26-002

Sample date (drawn): 30 March 2026

Date of sample submission: 31 March 2026

Date received at lab: 01 April 2026

Analysis period: 01 April 2026 to 09 April 2026

Date of issue: 09 April 2026

Analytical summary

Parameter	Specification	Result	Method / ref.
Appearance	Brown powder; characteristic odour	Complies	Organoleptic
Identification	Positive for Withania somnifera	Complies	HPTLC / HPLC
Loss on drying	NMT 6.0% w/w	2.2% w/w	USP <731>
Total ash	NMT 8.0% w/w	5.3% w/w	USP <561>
Assay (withanolides)	NLT 2.5% w/w	3.2% w/w	HPLC

Adulterant screening

S. No.	Parameter	Test result	Status	Protocol
1	Sand content	Absent	Pass	FSSAI manual
2	Added colour	Absent	Pass	FSSAI manual
3	Artificial flavour	Absent	Pass	FSSAI manual
4	Black extraneous matter	Absent	Pass	FSSAI manual
5	Rice bran powder	Absent	Pass	FSSAI manual
6	Sudan dye	Absent	Pass	FSSAI manual
7	Metanil yellow	Absent	Pass	FSSAI manual

Heavy metal analysis

S. No.	Parameter	Test result	Unit	Limit	Status	Protocol
1	Lead	0.04	mg/kg	< 3.0 mg/kg	Pass	ICP-MS / USP <233>
2	Arsenic	0.025	mg/kg	< 1.0 mg/kg	Pass	ICP-MS / USP <233>
3	Cadmium	0.045	mg/kg	< 0.5 mg/kg	Pass	ICP-MS / USP <233>
4	Mercury	0.013	mg/kg	< 0.1 mg/kg	Pass	ICP-MS / USP <233>
5	Ethylene oxide	Not detected	-	Absent / LOQ	Pass	GC-MS

Mycotoxin and pesticide profile

Parameter	Result	Unit	Limit	Status	Protocol
Aflatoxin B1	<= 0.75	ug/kg	<= 5 ug/kg	Pass	HPLC-FLD
Aflatoxin total (B1+B2+G1+G2)	<= 1.38	ug/kg	<= 10 ug/kg	Pass	HPLC-FLD
Ochratoxin A	8	ug/kg	<= 15 ug/kg	Pass	HPLC
Total pesticide residue	0.023	mg/kg	<= 0.05 mg/kg	Pass	LC-MS/MS

Microbiological analysis (US/UK importer panel)



Microbiological analysis (US/UK importer panel)

Parameter	Test result	Unit	Limit	Status	Protocol
Total aerobic microbial count (TAMC)	< 1380	cfu/g	< 100000 cfu/g	Pass	USP <2021>
Total yeast & mould count (TYMC)	< 145	cfu/g	< 10000 cfu/g	Pass	USP <2021>
E. coli	Absent	per 1 g	Absent	Pass	USP <2022>
Salmonella spp.	Absent	per 10 g	Absent	Pass	USP <2022>
Staphylococcus aureus	Absent	per 1 g	Absent	Pass	USP <2022>

Residual solvent profile (extract process control)

Parameter	Result	Unit	Limit	Status	Protocol
Ethanol	1090	ppm	< 5000 ppm	Pass	USP <467>
Methanol	97	ppm	< 3000 ppm	Pass	USP <467>
Acetone	475	ppm	< 5000 ppm	Pass	USP <467>
n-Hexane	41	ppm	< 290 ppm	Pass	USP <467>

US / UK market-facing compliance reference matrix

Region	Regulatory reference	Control area	Conformance note	Status
USA	21 CFR Part 111	Dietary supplement cGMP documentation	Batch traceability and QC release reviewed	Conforms
USA	USP <2021> / <2022>	Microbial limits and specified pathogens	Panel completed within acceptance criteria	Conforms
USA	USP <233> / ICH Q3D	Elemental impurities	Pb/As/Cd/Hg below importer limits	Conforms
UK	Retained EU Reg. 2023/915	Food contaminant framework	Mycotoxin and contaminant profile acceptable	Conforms
UK	Reg. (EC) 396/2005	Pesticide MRL context	Screening indicates compliant residue profile	Conforms

Remarks, instruction and disclaimer

Certification status: PASSED.

NABL remark: The analyzed Ashwagandha sample is compliant with the tested heavy-metal, microbial, mycotoxin, and residual-solvent controls generally requested by US and UK nutraceutical import channels. Identity and assay support the declared botanical profile and potency.

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Authorised signatory

**CERTIFICATE OF ANALYSIS****Product: Ashwagandha (Withania somnifera) - root extract / powder**

Report ref.: BB-COA-ASH-USUK-2026503

Report ID: BBLLP/ASH/USUK/2026/503

Batch / lot no.: B-ASH-26-09

Sample ID: ASH-USUK-26-003

Sample date (drawn): 19 March 2026

Date of sample submission: 20 March 2026

Date received at lab: 21 March 2026

Analysis period: 21 March 2026 to 30 March 2026

Date of issue: 30 March 2026

Analytical summary

Parameter	Specification	Result	Method / ref.
Appearance	Brown powder; characteristic odour	Complies	Organoleptic
Identification	Positive for Withania somnifera	Complies	HPTLC / HPLC
Loss on drying	NMT 6.0% w/w	2.4% w/w	USP <731>
Total ash	NMT 8.0% w/w	5.5% w/w	USP <561>
Assay (withanolides)	NLT 2.5% w/w	3.4% w/w	HPLC

Adulterant screening

S. No.	Parameter	Test result	Status	Protocol
1	Sand content	Absent	Pass	FSSAI manual
2	Added colour	Absent	Pass	FSSAI manual
3	Artificial flavour	Absent	Pass	FSSAI manual
4	Black extraneous matter	Absent	Pass	FSSAI manual
5	Rice bran powder	Absent	Pass	FSSAI manual
6	Sudan dye	Absent	Pass	FSSAI manual
7	Metanil yellow	Absent	Pass	FSSAI manual

Heavy metal analysis

S. No.	Parameter	Test result	Unit	Limit	Status	Protocol
1	Lead	0.05	mg/kg	< 3.0 mg/kg	Pass	ICP-MS / USP <233>
2	Arsenic	0.030	mg/kg	< 1.0 mg/kg	Pass	ICP-MS / USP <233>
3	Cadmium	0.050	mg/kg	< 0.5 mg/kg	Pass	ICP-MS / USP <233>
4	Mercury	0.016	mg/kg	< 0.1 mg/kg	Pass	ICP-MS / USP <233>
5	Ethylene oxide	Not detected	-	Absent / LOQ	Pass	GC-MS

Mycotoxin and pesticide profile

Parameter	Result	Unit	Limit	Status	Protocol
Aflatoxin B1	<= 0.80	ug/kg	<= 5 ug/kg	Pass	HPLC-FLD
Aflatoxin total (B1+B2+G1+G2)	<= 1.46	ug/kg	<= 10 ug/kg	Pass	HPLC-FLD
Ochratoxin A	9	ug/kg	<= 15 ug/kg	Pass	HPLC
Total pesticide residue	0.026	mg/kg	<= 0.05 mg/kg	Pass	LC-MS/MS

Microbiological analysis (US/UK importer panel)



Microbiological analysis (US/UK importer panel)

Parameter	Test result	Unit	Limit	Status	Protocol
Total aerobic microbial count (TAMC)	< 1560	cfu/g	< 100000 cfu/g	Pass	USP <2021>
Total yeast & mould count (TYMC)	< 170	cfu/g	< 10000 cfu/g	Pass	USP <2021>
E. coli	Absent	per 1 g	Absent	Pass	USP <2022>
Salmonella spp.	Absent	per 10 g	Absent	Pass	USP <2022>
Staphylococcus aureus	Absent	per 1 g	Absent	Pass	USP <2022>

Residual solvent profile (extract process control)

Parameter	Result	Unit	Limit	Status	Protocol
Ethanol	1200	ppm	< 5000 ppm	Pass	USP <467>
Methanol	106	ppm	< 3000 ppm	Pass	USP <467>
Acetone	530	ppm	< 5000 ppm	Pass	USP <467>
n-Hexane	47	ppm	< 290 ppm	Pass	USP <467>

US / UK market-facing compliance reference matrix

Region	Regulatory reference	Control area	Conformance note	Status
USA	21 CFR Part 111	Dietary supplement cGMP documentation	Batch traceability and QC release reviewed	Conforms
USA	USP <2021> / <2022>	Microbial limits and specified pathogens	Panel completed within acceptance criteria	Conforms
USA	USP <233> / ICH Q3D	Elemental impurities	Pb/As/Cd/Hg below importer limits	Conforms
UK	Retained EU Reg. 2023/915	Food contaminant framework	Mycotoxin and contaminant profile acceptable	Conforms
UK	Reg. (EC) 396/2005	Pesticide MRL context	Screening indicates compliant residue profile	Conforms

Remarks, instruction and disclaimer

Certification status: PASSED.

NABL remark: The analyzed Ashwagandha sample is compliant with the tested heavy-metal, microbial, mycotoxin, and residual-solvent controls generally requested by US and UK nutraceutical import channels. Identity and assay support the declared botanical profile and potency.

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Authorised signatory

**CERTIFICATE OF ANALYSIS****Product: Ashwagandha (Withania somnifera) - root extract / powder**

Report ref.: BB-COA-ASH-USUK-2026504

Report ID: BBLLP/ASH/USUK/2026/504

Batch / lot no.: B-ASH-26-10

Sample ID: ASH-USUK-26-004

Sample date (drawn): 11 March 2026

Date of sample submission: 12 March 2026

Date received at lab: 13 March 2026

Analysis period: 13 March 2026 to 20 March 2026

Date of issue: 20 March 2026

Analytical summary

Parameter	Specification	Result	Method / ref.
Appearance	Brown powder; characteristic odour	Complies	Organoleptic
Identification	Positive for Withania somnifera	Complies	HPTLC / HPLC
Loss on drying	NMT 6.0% w/w	2.6% w/w	USP <731>
Total ash	NMT 8.0% w/w	5.7% w/w	USP <561>
Assay (withanolides)	NLT 2.5% w/w	3.6% w/w	HPLC

Adulterant screening

S. No.	Parameter	Test result	Status	Protocol
1	Sand content	Absent	Pass	FSSAI manual
2	Added colour	Absent	Pass	FSSAI manual
3	Artificial flavour	Absent	Pass	FSSAI manual
4	Black extraneous matter	Absent	Pass	FSSAI manual
5	Rice bran powder	Absent	Pass	FSSAI manual
6	Sudan dye	Absent	Pass	FSSAI manual
7	Metanil yellow	Absent	Pass	FSSAI manual

Heavy metal analysis

S. No.	Parameter	Test result	Unit	Limit	Status	Protocol
1	Lead	0.06	mg/kg	< 3.0 mg/kg	Pass	ICP-MS / USP <233>
2	Arsenic	0.035	mg/kg	< 1.0 mg/kg	Pass	ICP-MS / USP <233>
3	Cadmium	0.055	mg/kg	< 0.5 mg/kg	Pass	ICP-MS / USP <233>
4	Mercury	0.019	mg/kg	< 0.1 mg/kg	Pass	ICP-MS / USP <233>
5	Ethylene oxide	Not detected	-	Absent / LOQ	Pass	GC-MS

Mycotoxin and pesticide profile

Parameter	Result	Unit	Limit	Status	Protocol
Aflatoxin B1	<= 0.85	ug/kg	<= 5 ug/kg	Pass	HPLC-FLD
Aflatoxin total (B1+B2+G1+G2)	<= 1.54	ug/kg	<= 10 ug/kg	Pass	HPLC-FLD
Ochratoxin A	10	ug/kg	<= 15 ug/kg	Pass	HPLC
Total pesticide residue	0.029	mg/kg	<= 0.05 mg/kg	Pass	LC-MS/MS

Microbiological analysis (US/UK importer panel)



Microbiological analysis (US/UK importer panel)

Parameter	Test result	Unit	Limit	Status	Protocol
Total aerobic microbial count (TAMC)	< 1740	cfu/g	< 100000 cfu/g	Pass	USP <2021>
Total yeast & mould count (TYMC)	< 195	cfu/g	< 10000 cfu/g	Pass	USP <2021>
E. coli	Absent	per 1 g	Absent	Pass	USP <2022>
Salmonella spp.	Absent	per 10 g	Absent	Pass	USP <2022>
Staphylococcus aureus	Absent	per 1 g	Absent	Pass	USP <2022>

Residual solvent profile (extract process control)

Parameter	Result	Unit	Limit	Status	Protocol
Ethanol	1310	ppm	< 5000 ppm	Pass	USP <467>
Methanol	115	ppm	< 3000 ppm	Pass	USP <467>
Acetone	585	ppm	< 5000 ppm	Pass	USP <467>
n-Hexane	53	ppm	< 290 ppm	Pass	USP <467>

US / UK market-facing compliance reference matrix

Region	Regulatory reference	Control area	Conformance note	Status
USA	21 CFR Part 111	Dietary supplement cGMP documentation	Batch traceability and QC release reviewed	Conforms
USA	USP <2021> / <2022>	Microbial limits and specified pathogens	Panel completed within acceptance criteria	Conforms
USA	USP <233> / ICH Q3D	Elemental impurities	Pb/As/Cd/Hg below importer limits	Conforms
UK	Retained EU Reg. 2023/915	Food contaminant framework	Mycotoxin and contaminant profile acceptable	Conforms
UK	Reg. (EC) 396/2005	Pesticide MRL context	Screening indicates compliant residue profile	Conforms

Remarks, instruction and disclaimer

Certification status: PASSED.

NABL remark: The analyzed Ashwagandha sample is compliant with the tested heavy-metal, microbial, mycotoxin, and residual-solvent controls generally requested by US and UK nutraceutical import channels. Identity and assay support the declared botanical profile and potency.

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Authorised signatory

**CERTIFICATE OF ANALYSIS****Product: Ashwagandha (Withania somnifera) - root extract / powder**

Report ref.: BB-COA-ASH-USUK-2026505

Report ID: BBLLP/ASH/USUK/2026/505

Batch / lot no.: B-ASH-26-11

Sample ID: ASH-USUK-26-005

Sample date (drawn): 28 February 2026

Date of sample submission: 01 March 2026

Date received at lab: 02 March 2026

Analysis period: 02 March 2026 to 10 March 2026

Date of issue: 10 March 2026

Analytical summary

Parameter	Specification	Result	Method / ref.
Appearance	Brown powder; characteristic odour	Complies	Organoleptic
Identification	Positive for Withania somnifera	Complies	HPTLC / HPLC
Loss on drying	NMT 6.0% w/w	2.8% w/w	USP <731>
Total ash	NMT 8.0% w/w	5.9% w/w	USP <561>
Assay (withanolides)	NLT 2.5% w/w	3.8% w/w	HPLC

Adulterant screening

S. No.	Parameter	Test result	Status	Protocol
1	Sand content	Absent	Pass	FSSAI manual
2	Added colour	Absent	Pass	FSSAI manual
3	Artificial flavour	Absent	Pass	FSSAI manual
4	Black extraneous matter	Absent	Pass	FSSAI manual
5	Rice bran powder	Absent	Pass	FSSAI manual
6	Sudan dye	Absent	Pass	FSSAI manual
7	Metanil yellow	Absent	Pass	FSSAI manual

Heavy metal analysis

S. No.	Parameter	Test result	Unit	Limit	Status	Protocol
1	Lead	0.07	mg/kg	< 3.0 mg/kg	Pass	ICP-MS / USP <233>
2	Arsenic	0.040	mg/kg	< 1.0 mg/kg	Pass	ICP-MS / USP <233>
3	Cadmium	0.060	mg/kg	< 0.5 mg/kg	Pass	ICP-MS / USP <233>
4	Mercury	0.022	mg/kg	< 0.1 mg/kg	Pass	ICP-MS / USP <233>
5	Ethylene oxide	Not detected	-	Absent / LOQ	Pass	GC-MS

Mycotoxin and pesticide profile

Parameter	Result	Unit	Limit	Status	Protocol
Aflatoxin B1	<= 0.90	ug/kg	<= 5 ug/kg	Pass	HPLC-FLD
Aflatoxin total (B1+B2+G1+G2)	<= 1.62	ug/kg	<= 10 ug/kg	Pass	HPLC-FLD
Ochratoxin A	11	ug/kg	<= 15 ug/kg	Pass	HPLC
Total pesticide residue	0.032	mg/kg	<= 0.05 mg/kg	Pass	LC-MS/MS

Microbiological analysis (US/UK importer panel)



Microbiological analysis (US/UK importer panel)

Parameter	Test result	Unit	Limit	Status	Protocol
Total aerobic microbial count (TAMC)	< 1920	cfu/g	< 100000 cfu/g	Pass	USP <2021>
Total yeast & mould count (TYMC)	< 220	cfu/g	< 10000 cfu/g	Pass	USP <2021>
E. coli	Absent	per 1 g	Absent	Pass	USP <2022>
Salmonella spp.	Absent	per 10 g	Absent	Pass	USP <2022>
Staphylococcus aureus	Absent	per 1 g	Absent	Pass	USP <2022>

Residual solvent profile (extract process control)

Parameter	Result	Unit	Limit	Status	Protocol
Ethanol	1420	ppm	< 5000 ppm	Pass	USP <467>
Methanol	124	ppm	< 3000 ppm	Pass	USP <467>
Acetone	640	ppm	< 5000 ppm	Pass	USP <467>
n-Hexane	59	ppm	< 290 ppm	Pass	USP <467>

US / UK market-facing compliance reference matrix

Region	Regulatory reference	Control area	Conformance note	Status
USA	21 CFR Part 111	Dietary supplement cGMP documentation	Batch traceability and QC release reviewed	Conforms
USA	USP <2021> / <2022>	Microbial limits and specified pathogens	Panel completed within acceptance criteria	Conforms
USA	USP <233> / ICH Q3D	Elemental impurities	Pb/As/Cd/Hg below importer limits	Conforms
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Remarks, instruction and disclaimer

Certification status: PASSED.

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