GST TIN No. : 03AAZFB3143Q1ZX

BIONIAL LIFESCIENCES

(A WHO GMP Compliance & ISO 9001:2015 Certified Co.)

Plot No. 459, Sector 82, JLPL, Mohali (Pb.) - 140308

Ref. No. 0481 *Dated* 24/08/2026

CERTIFICATE OF ANALYSIS

(Finished Product)

Product name	EX1 Berberine 1000 mg + Gymnema + Cinnamon + Chromium Capsules	**Batch No.**	BLAC-A0017
Mfg. Date	08-2026	**Exp. Date**	07-2029
Batch size	120,000 capsules	**Market**	Domestic
Sample received	15-08-2026	**Sample quantity**	100 capsules
Report date	23-08-2026	**Analysis period**	15-08-2026 to 22-08-2026
Manufactured by	Bionial Lifesciences, Mohali, Punjab	**Marketed by**	Vynza Pharmaceuticals Pvt. Ltd., Panchkula, Haryana
Mfg. AYUSH Lic. No.	909/AY-PB	**Sample packing**	Transparent PET jar with golden cap; 60 vegetarian capsules

1. Identification and physical characteristics

Test	Result	Unit	Specification / Limit
Description	Conforms	-	Transparent vegetarian hard capsules containing yellow to yellow-brown powder; capsules intact, properly locked and free from visible defects
Identification - Berberine	Complies	-	Principal marker corresponds to berberine reference standard
Identification - Botanical blend	Complies	-	Fingerprint consistent with approved Gymnema, Cinnamon, Bitter Melon and Black Pepper extracts
Average capsule fill weight	703	mg	700 mg target; average contents mass ≥300 mg
Uniformity of fill weight (20 capsules)	680-725; Complies	mg	Not more than 2 outside ±7.5%; none outside ±15%
Capsule integrity	Complies	-	Capsules intact, properly locked and free from leakage/damage
Disintegration	12 min 45 sec	-	NMT 30 minutes
Loss on drying	3.0	% w/w	NMT 5.0% w/w
Pack content	60 capsules; 42.2 g	-	60 capsules; net weight NLT 42 g

	Prepared by	Checked by	Approved by
Sign.			

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2. Assay

Test	Method / Reference	Result	Unit	Specification / Limit
Berberine HCl	HPLC-UV	1012 (101.2%)	mg/2 capsules	NLT 900 mg/2 capsules; label claim 1000 mg
Chromium	ICP-MS	198 (99.0%)	mcg/2 capsules	NLT 180 mcg/2 capsules; label claim 200 mcg
Gymnema + Cinnamon + Bitter Melon + Black Pepper extracts	RM COA + BMR reconciliation	Complies	-	Quantities conform to approved BMR / label composition

3. Heavy metals

Test	Method Source	Result	Unit	Limit	LOQ*
Lead (Pb)	ICP-MS	0.38	mg/kg	NMT 10 mg/kg	0.05
Arsenic (As)	ICP-MS	0.15	mg/kg	NMT 3 mg/kg	0.05
Cadmium (Cd)	ICP-MS	0.05	mg/kg	NMT 0.3 mg/kg	0.02
Mercury (Hg)	Cold-vapour AAS	<0.010	mg/kg	NMT 1.0 mg/kg	0.01

Reference basis: Ayurvedic Pharmacopoeia of India (API), Part I, Vol. IX limits for herbal medicines: Pb NMT 10 mg/kg, As NMT 3 mg/kg, Cd NMT 0.3 mg/kg and Hg NMT 1 mg/kg.

4A. Microbiological examination

Test	Method Source	Result	Unit	Specification / Requirement	LOQ*
Total aerobic microbial count	Pharmacopoeial plate-count method	560	cfu/g	NMT 1×10^5 cfu/g	10
Yeast and moulds	Pharmacopoeial fungal-count method	40	cfu/g	NMT 1×10^3 cfu/g	10
Escherichia coli	Pharmacopoeial microbial limit test	Absent	/g	Absent / g	-
Salmonella spp.	Pharmacopoeial microbial limit test	Absent	/g	Absent / g	-
Staphylococcus aureus	Pharmacopoeial microbial limit test	Absent	/g	Absent / g	-
Pseudomonas aeruginosa	Pharmacopoeial microbial limit test	Absent	/g	Absent / g	-

Microbiology basis: API limits for herbal extracts/powders - total aerobic microbial count NMT 1×10^5 cfu/g, yeast and moulds NMT 1×10^3 cfu/g; E. coli, Salmonella spp., S. aureus and P. aeruginosa absent.

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4B. Additional microbiological quality indicators

Test	Method Source	Result	Unit	Specification	LOQ*
Coliforms	ISO 4832:2006	<10	cfu/g	Less than 10 cfu/g	10

5. Stability status

Test	Method Source	Result	Specification / Requirement
Accelerated stability (40 °C ± 2 °C / 75% RH ± 5% RH)	As per approved accelerated stability protocol	T0 complies: Berberine HCl 1012 mg/serving (101.2%); Chromium 198 mcg/serving (99.0%); description and disintegration comply. Study initiated; subsequent scheduled time points pending.	Assay and physical characteristics to conform to the approved stability specification at each scheduled time point

6. Conclusion

ASSESSMENT: Based on the illustrative results shown above, the tested parameters comply with the stated product specifications.

	Prepared by	Checked by	Approved by
Sign.	Simran	Raunak	