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. 0487 *Dated* 17/08/2026

CERTIFICATE OF ANALYSIS

(Finished Product)

Product name	EX1 B-Complex Methylation Stack Tablets	**Batch No.**	BLN:-A0174
Mfg. Date	08-2026	**Exp. Date**	07-2028
Batch size	120,000 tablets	**Market**	Domestic
Sample received	06-08-2026	**Sample quantity**	100 tablets
Report date	14-08-2026	**Analysis period**	06-08-2026 to 13-08-2026
Manufactured by	Bionial Lifesciences, Mohali, Punjab	**Marketed by**	Vynza Pharmaceuticals Pvt. Ltd., Panchkula, Haryana
Mfg. FSSAI Lic. No.	12122999000156	**Sample packing**	Transparent PET jar with golden cap; 60 tablets

1. Identification and physical characteristics

Test	Result	Unit	Specification / Limit
Description	Conforms	-	White, triangular, film-coated tablets; uniform appearance; free from visible defects
Identification - B-vitamin profile	Complies	-	Chromatographic profile corresponds to reference standards
Identification - Choline / Betaine	Complies	-	Principal analyte peaks correspond to reference standards
Average tablet weight	603	mg	600 mg ± 5% (570-630 mg)
Weight variation (20 tablets)	588-617; Complies	mg	Not more than 2 outside ±5%, none outside ±10%
Thickness	5.4	mm	4.9-5.9 mm
Hardness	8.9	kp	7-11 kp
Friability	0.27	% w/w	NMT 1.0% w/w
Disintegration	10 min 35 sec	-	NMT 30 minutes
Loss on drying	2.4	% w/w	NMT 5.0% w/w
Pack content	60 tablets; 36.2 g	-	60 tablets; net weight NLT 36 g

	Prepared by	Checked by	Approved by
Sign.			

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2. Assay

Test	Method / Reference	Result	Unit	Specification / Limit
Vitamin B1 (Thiamine HCl)	HPLC-UV	1.82 (101.1%)	mg/tablet	NLT 1.62 mg/tablet; label claim 1.8 mg
Vitamin B2 (Riboflavin-5-Phosphate)	HPLC-UV	2.49 (99.6%)	mg/tablet	NLT 2.25 mg/tablet; label claim 2.5 mg
Vitamin B3 (Niacinamide)	HPLC-UV	18.3 (101.7%)	mg/tablet	NLT 16.2 mg/tablet; label claim 18 mg
Vitamin B5 (Calcium D-Pantothenate)	HPLC-UV	5.03 (100.6%)	mg/tablet	NLT 4.50 mg/tablet; label claim 5 mg
Vitamin B6 (Pyridoxal-5-Phosphate)	HPLC-UV	2.412 (100.5%)	mg/tablet	NLT 2.16 mg/tablet; label claim 2.4 mg
Biotin	LC-MS/MS	40.5 (101.2%)	mcg/tablet	NLT 36 mcg/tablet; label claim 40 mcg
Folic Acid	HPLC-UV	177.7 (100.7%)	mcg/tablet	NLT 158.8 mcg/tablet; label claim 176.47 mcg
Vitamin B12 (Cyanocobalamin)	LC-MS/MS	2.18 (99.1%)	mcg/tablet	NLT 1.98 mcg/tablet; label claim 2.2 mcg
Choline	Ion chromatography	83.4 (101.1%)	mg/tablet	NLT 74.25 mg/tablet; label claim 82.5 mg
Myo-Inositol	HPLC-RI	49.7 (99.4%)	mg/tablet	NLT 45 mg/tablet; label claim 50 mg
Betaine (TMG)	Ion chromatography	50.8 (101.6%)	mg/tablet	NLT 45 mg/tablet; label claim 50 mg

3. Metal contaminants

Test	Method Source	Result	Unit	Limit	LOQ*
Lead (Pb)	ICP-MS	<0.050	mg/kg	NMT 2.5 mg/kg	0.05
Arsenic (As)	ICP-MS	<0.050	mg/kg	NMT 1.1 mg/kg	0.05
Cadmium (Cd)	ICP-MS	<0.020	mg/kg	NMT 1.5 mg/kg	0.02
Mercury (Hg)	Cold-vapour AAS	<0.010	mg/kg	NMT 1.0 mg/kg	0.01
Tin (Sn)	ICP-MS	<0.300	mg/kg	NMT 250 mg/kg	0.30
Methyl Mercury	HPLC-ICP-MS	<0.100	mg/kg	NMT 0.25 mg/kg	0.10

Reference basis: applicable FSSAI/FSSR metal-contaminant limits for foods not otherwise specified / all foods, as relevant.

4A. Microbiological examination

Test	Method Source	Result	Unit	Specification / Requirement	LOQ*
Aerobic Plate Count	ISO 4833-1:2013	90	cfu/g	Table 10A: n=5; c=2; m=1×10^4; M=1×10^5	10
Yeast and moulds	ISO 21527-2:2008	<10	cfu/g	Table 10A: n=5; c=2; m=1×10^2; M=1×10^3	10
Enterobacteriaceae	ISO 21528-2:2017	<10	cfu/g	Table 10A: n=5; c=2; m=1×10^2; M=1×10^3	10

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Sign.	Simran	Rac	

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Salmonella spp.	IS 5887 (Part 3) (Sec 1):2020	Not Detected	/25 g	Table 10B: n=5; c=0; Absent / 25 g	-
Listeria monocytogenes	IS 14988 (Part 1):2020	Not Detected	/25 g	Table 10B: n=5; c=0; Absent / 25 g	-

Microbiology sampling plan: FSSAI Appendix B Table 10A process-hygiene criteria use n=5, c=2; Table 10B food-safety criteria use n=5, c=0 for direct-consumption health supplements/nutraceuticals.

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
Escherichia coli	ISO 7251:2005	Absent	/g	Absent / g	-
Staphylococcus aureus	ISO 6888-1:2021	<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: assayed B-vitamins and methylation-stack actives are within approved release specifications; description and disintegration comply. Stud / 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.

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Sign.			