PLANTIQUE NATURALS
Bringing Nature to Market

CERTIFICATE OF ANALYSIS
Document ref: COA / GINGER-CO2

Ginger CO■ Extract

Zingiber officinale

Batch No.	**GC25036708**	Manufacturing Date	**07 Mar 2025**
Sample Ref.	**PN-6708**	Expiry / Retest Date	**07 Mar 2027**
Reporting Date	**03 Jul 2026**	Country of Origin	**India**

Organoleptic Characteristics

Parameter	Specification	Result
Appearance	Amber viscous liquid	Complies
Odour	Fresh, warm ginger	Characteristic
Solubility	Oil dispersible	Complies

Physico-Chemical Analysis

Parameter	Method	Specification	Result
Refractive Index @ 20°C	IS 326 / IP	1.488 – 1.494	1.488
Specific Gravity @ 25°C	IS 326 / IP	0.87 – 0.95	0.87
Optical Rotation @ 20°C	IS 326 / IP	-28° to -45°	Within limits
Extraction Method	In-house	Supercritical CO■ Extraction	Complies
CAS Number	—	8007-08-7	8007-08-7

Chromatographic Assay (GC-MS / HPLC)

Constituent	Method	Specification	Result
Zingiberene	GC-MS	28% min	**31.04 %**
Other identified marker	GC-MS	Report	8.90 %
Total volatile content	GC-MS	≥ 95%	98.31 %

Purity & Safety

Parameter	Specification	Result
Heavy Metals (as Pb)	≤ 10 ppm	< 1 ppm
Arsenic	≤ 3 ppm	< 0.5 ppm
Pesticide Residues	As per EU 396/2005	Complies
Microbial Count (TAMC)	≤ 1000 cfu/g	< 100 cfu/g

E. coli / Salmonella	Absent / g	Absent
GMO Status	Non-GMO	Complies
Allergen Declaration	IFRA / EU 1223/2009	See product data sheet

Conclusion: The above batch complies with Plantique Naturals in-house specifications and referenced pharmacopoeial / regulatory standards. Material is released for dispatch.

Analysed by
Quality Control Laboratory
Plantique Naturals

Approved by
K. Regalla
Quality Assurance Head