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 Andheri (East), Mumbai 400 093, Maharashtra, India

NABL ISO/IEC 17025:2017 · TC-8841

FSSAI NL-MH-0192

ISO 9001:2015

TEST REPORT • CERTIFICATE OF ANALYSIS

DISCIPLINE: CHEMICAL & BIOLOGICAL — FOOD AND AGRICULTURAL PRODUCTS

 ULR No. **TC884125000004417F**

 Report No. **PAL/COA/26/04417**

 Date of issue **12 September 2026**

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CUSTOMER DETAILS		SAMPLE DETAILS	
Name	Sahyadri Spice Exports Pvt. Ltd.	Sample	Turmeric Powder (Haldi), 500 g retail pack
Address	Plot C-22, APMC Market II, Vashi, Navi Mumbai 400 703	Brand / variant	Sahyadri Gold — Double Polished
Contact	Quality Assurance Department	Batch / lot no.	TP/26/0812
Reference	PO/SSE/26-27/0918 dated 02 Sep 2026	Mfg / Best before	04 Aug 2026 / 03 Aug 2028
Quotation	PAL/QTN/26/02231	Quantity	3 × 500 g, sealed retail packs
		Sampled by	Customer (sample submitted to laboratory)
		Condition	Seals intact, no damage; received at 28 °C ambient
		Date received	05 September 2026, 11:20 IST
		Analysis period	05 September 2026 to 11 September 2026
		Specification	FSS Regulations, 2011 (as amended) — turmeric powder; customer specification SSE-QA-07 Rev. 4

SECTION A — QUALITY AND COMPOSITION					All tests performed on the sample as received		
#	PARAMETER	UNIT	TEST METHOD	LOQ	RESULT	SPECIFIED LIMIT	CONFORMITY
1	Moisture †	% by mass	IS 1797 : 2017	0.10	7.24	10.0 max	Complies
2	Total ash †	% by mass	IS 1797 : 2017	0.10	6.12	9.0 max	Complies
3	Acid insoluble ash †	% by mass	IS 1797 : 2017	0.05	0.87	1.5 max	Complies
4	Crude fibre †	% by mass	IS 1797 : 2017	0.20	5.16	8.0 max	Complies
5	Volatile oil content †	mL/100 g	IS 1797 : 2017	0.10	2.64	1.5 min	Complies
6	Curcuminoids (as curcumin) †	% by mass	In-house PAL/CH/074, HPLC-PDA	0.05	3.82 ± 0.19	2.5 min	Complies
7	Starch, added (qualitative)	—	IS 1797 : 2017	—	Absent	Absent	Complies
8	Extraneous matter	% by mass	IS 1797 : 2017	0.05	0.11	1.0 max	Complies

SECTION C — MYCOTOXINS, RESIDUES AND PROCESS CONTAMINANTS

#	PARAMETER	UNIT	TEST METHOD	LOQ	RESULT	SPECIFIED LIMIT	CONFORMITY
1	Aflatoxin B1 †	µg/kg	AOAC 2005.08, HPLC-FLD	0.50	< 0.50	5.0 max	Complies
2	Aflatoxins, total (B1+B2+G1+G2) †	µg/kg	AOAC 2005.08, HPLC-FLD	2.00	< 2.00	10.0 max	Complies
3	Ochratoxin A †	µg/kg	AOAC 2000.03, HPLC-FLD	1.00	< 1.00	20.0 max	Complies
4	Pesticide residues — 312 analyte screen †	mg/kg	QuEChERS, LC-MS/MS & GC-MS/MS Full analyte list at Annexure I	0.010	None detected above LOQ	As per FSSR, 2011	Complies
5	Ethylene oxide (sum as 2-chloroethanol) †	mg/kg	GC-MS/MS	0.010	< 0.010	0.1 max (EU)	Complies

SECTION D — ADULTERANTS AND NON-PERMITTED COLOURS

#	PARAMETER	UNIT	TEST METHOD	LOQ	RESULT	SPECIFIED LIMIT	CONFORMITY
1	Metanil yellow †	—	IS 1797 : 2017 / HPLC-PDA	1 mg/kg	Absent	Absent	Complies
2	Lead chromate †	—	IS 1797 : 2017	—	Absent	Absent	Complies
3	Sudan dyes I, II, III & IV †	mg/kg	LC-MS/MS	0.50	< 0.50	Absent	Complies
4	Synthetic colours, other †	—	IS 1797 : 2017 / HPLC-PDA	1 mg/kg	Absent	Absent	Complies
5	Chalk powder / foreign starch	—	Microscopic examination	—	Absent	Absent	Complies
6	Artificial colour on surface	—	Visual & solvent extraction	—	Absent	Absent	Complies

SECTION E — MICROBIOLOGICAL EXAMINATION

Class 10,000 suite · analysis commenced within 24 h of receipt

#	PARAMETER	UNIT	TEST METHOD	LOQ	RESULT	SPECIFIED LIMIT	CONFORMITY
1	Total plate count †	cfu/g	IS 5402 : 2012 / ISO 4833-1	10	1.2 × 10⁴	1.0 × 10 ⁵ max	Complies
2	Yeast & mould count †	cfu/g	IS 5403 : 1999 / ISO 21527	10	2.0 × 10²	1.0 × 10 ³ max	Complies
3	Coliforms †	cfu/g	IS 5401 (Part 1) : 2012	10	< 10	10 max	Complies
4	Escherichia coli †	per g	IS 5887 (Part 1) : 1976	—	Absent	Absent	Complies
5	Salmonella spp. †	per 25 g	ISO 6579-1 : 2017	—	Absent	Absent	Complies
6	Staphylococcus aureus †	cfu/g	IS 5887 (Part 2) : 1976	10	< 10	100 max	Complies
7	Bacillus cereus †	cfu/g	IS 5887 (Part 6) : 2012	10	< 10	10 ⁴ max	Complies

OPINION AND INTERPRETATION

The sample described above, **as received**, complies with the requirements of the Food Safety and Standards Regulations, 2011 (as amended) for turmeric powder, and with customer specification SSE-QA-07 Rev. 4, for all parameters tested. No non-permitted colour, added starch or chromate-based adulterant was detected. Pesticide residues were below the limit of quantification for all 312 analytes screened; the sample additionally meets the European Union maximum residue level for ethylene oxide expressed as 2-chloroethanol. *This opinion is outside the scope of NABL accreditation and is offered at the customer's request.*

DECLARATIONS, CONDITIONS AND NOTES

1. The results relate only to the sample(s) as received and tested by the laboratory. Where sampling was performed by the customer, the laboratory accepts no responsibility for the representativeness of the sample.
2. This report shall not be reproduced except in full, and shall not be used in any advertisement or for product endorsement, without the prior written approval of the laboratory.
3. Parameters marked † are within the laboratory's NABL accredited scope (Certificate TC-8841). Parameters not so marked are performed under the laboratory's quality system but are outside the accredited scope.
4. Statements of conformity are made using a **simple acceptance decision rule** (guard band $w = 0$): measurement uncertainty is not taken into account when the result is compared with the specified limit. Expanded uncertainty, where reported, is stated at a coverage factor $k = 2$, corresponding to approximately 95 % confidence.
5. Results reported as "< value" indicate that the analyte was not detected at or above the stated limit of quantification. "Absent" indicates a negative result by the qualitative method cited.
6. Remaining sample is retained for **30 days** from the date of issue for non-perishable matrices and **7 days** for perishable matrices, after which it is disposed of under documented procedure, unless extended retention has been agreed in writing.
7. Any discrepancy in this report must be communicated to the Quality Manager in writing within **15 days** of the date of issue. Appeals are handled by personnel not involved in the original work.
8. This report is issued subject to the laboratory's standard terms of business and is not to be used as evidence in a court of law except with the laboratory's prior written consent.
9. The laboratory holds all information relating to this sample and this customer in confidence and does not disclose it to any third party except where required by law.

*S. Kulkarni***Shreya Kulkarni**

Analyst — Chemistry & Instrumentation

Date: 11 Sep 2026

*R. Iyer***Rohan Iyer**

Technical Manager — Reviewed by

Date: 12 Sep 2026

*A. Deshmukh***Dr. Anaya Deshmukh**

Authorised Signatory & Quality Manager

Date: 12 Sep 2026

— END OF TEST REPORT —