



## CERTIFICATE OF ANALYSIS - PROFESSIONAL LAB REPORT

**Category:** *Tinospora cordifolia* (*Tinospora cordifolia*) | **Variety:** *Tinospora cordifolia* | **Sample Ref:** PNO109-V02-L04

Stock: April-May 2026 | COA backed by NABL approved ISO/IEC 17025:2017 laboratory

Lot: TINO109-26M05-024

| Field                     | Value                               | NABL Approved Lab |
|---------------------------|-------------------------------------|-------------------|
| Report ID                 | BBLLP/TINO109/2026/05/10924         |                   |
| Report Ref                | BB-COA-TINO109-26M05-024            |                   |
| Batch / Lot               | B-TINO109-26M05-024                 |                   |
| Sample ID                 | TINO109-V02-L04                     |                   |
| Date of sample submission | 13/05/2026                          |                   |
| Date received in lab      | 18/05/2026                          |                   |
| Analysis period           | 18/05/2026 to 21/05/2026            |                   |
| Date of issue             | 21/05/2026                          |                   |
| Manufacturer              | Botanika Bharat LLP                 |                   |
| Address                   | Rudrapur, Uttarakhand, India        |                   |
| Sample quantity           | 500 g                               |                   |
| Lab accreditation         | NABL approved (ISO/IEC 17025:2017)  |                   |
| Market clearance          | Domestic, EU, UK, USA, Non-EU: Pass |                   |

### General Profile (Identity & Grade)

| Parameter          | Type      | Allowed limit/spec                      | Result    | Method                | Status |
|--------------------|-----------|---|-----------|-----------------------|--------|
| Appearance         | Mandatory | Characteristic export grade             | Complies  | Organoleptic          | Pass   |
| Botanical identity | Mandatory | <i>Tinospora cordifolia</i>             | Confirmed | Macroscopy / DNA spot | Pass   |
| Variety / cultivar | Mandatory | <i>Tinospora cordifolia</i> Root Powder | Confirmed | Traceability          | Pass   |
| Odour & taste      | Mandatory | Typical, no off-note                    | Complies  | Organoleptic          | Pass   |
| Foreign odour      | Mandatory | Absent                                  | Absent    | Organoleptic          | Pass   |

### Adulteration & Authenticity (Buyer Critical)

| Parameter                   | Type          | Allowed limit/spec | Result   | Method        | Status |
|-----------------------------|---------------|--------------------|----------|---------------|--------|
| Undeclared fillers / starch | Mandatory     | Absent             | Absent   | Iodine / FTIR | Pass   |
| Species substitution        | Mandatory     | Absent             | Absent   | HPTLC / DNA   | Pass   |
| Synthetic colour            | Mandatory     | Absent             | Absent   | LC-MS         | Pass   |
| Extraneous matter           | Non-mandatory | Within grade       | Complies | ISO 927       | Pass   |

### Chemical & Trade Markers (Buyer Decision)

| Parameter                 | Type      | Allowed limit/spec  | Result      | Method     | Status |
|---------------------------|-----------|---------------------|-------------|------------|--------|
| Berberine-type marker     | Mandatory | Pharma / food grade | 1.62%       | HPLC/HPTLC | Pass   |
| Moisture                  | Mandatory | Max 10%             | 5.0%        | AOAC       | Pass   |
| Total ash                 | Mandatory | Monograph           | 10.1%       | AOAC       | Pass   |
| Heavy metals panel        | Mandatory | EU/USP              | Complies    | ICP-MS     | Pass   |
| Pesticide residue (panel) | Mandatory | MRL all markets     | 0.023 mg/kg | LC-MS/MS   | Pass   |
| Total aflatoxins          | Mandatory | < 10 µg/kg          | < 4.2 µg/kg | HPLC       | Pass   |

### Nutritional (Optional)

| Parameter    | Type     | Allowed limit/spec | Result        | Method      | Status |
|--------------|----------|--------------------|---------------|-------------|--------|
| Energy       | Optional | Label reference    | 349 kcal/100g | Calculation | Pass   |
| Protein      | Optional | Label reference    | 2.6%          | Kjeldahl    | Pass   |
| Carbohydrate | Optional | Label reference    | 65.0%         | AOAC        | Pass   |

### Domestic India — FSSAI Buyer Panel

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## Domestic India — FSSAI Buyer Panel

| Parameter                 | Type          | Allowed limit/spec            | Result   | Method            | Status |
|---------------------------|---------------|-------------------------------|----------|-------------------|--------|
| FSSAI product category    | Mandatory     | Applicable schedule           | Conforms | Regulatory review | Pass   |
| FSSAI pesticide MRL       | Mandatory     | Within CIBRC notified limits  | Complies | LC-MS/MS          | Pass   |
| FSSAI heavy metals        | Mandatory     | Within limits                 | Complies | ICP-MS            | Pass   |
| BIS / FSSAI microbiology  | Mandatory     | Retail-ready where applicable | Complies | ISO/BIS           | Pass   |
| Legal metrology (net qty) | Non-mandatory | Declared                      | Conforms | Doc review        | Pass   |

## EU Buyer / Import Panel

| Parameter                      | Type          | Allowed limit/spec | Result      | Method   | Status |
|--------------------------------|---------------|--------------------|-------------|----------|--------|
| Lead (Pb)                      | Mandatory     | Reg. 2023/915      | 0.05 mg/kg  | ICP-MS   | Pass   |
| Arsenic (As)                   | Mandatory     | EU limits          | 0.16 mg/kg  | ICP-MS   | Pass   |
| Cadmium (Cd)                   | Mandatory     | EU limits          | 0.049 mg/kg | ICP-MS   | Pass   |
| Mercury (Hg)                   | Mandatory     | EU limits          | 0.011 mg/kg | ICP-MS   | Pass   |
| Aflatoxin B1                   | Mandatory     | < 5 µg/kg          | < 2.0 µg/kg | HPLC     | Pass   |
| Total aflatoxins               | Mandatory     | < 10 µg/kg         | < 5.0 µg/kg | HPLC     | Pass   |
| EU pesticide MRL (EC 396/2005) | Mandatory     | Compliant          | Complies    | LC-MS/MS | Pass   |
| Import documentation (CHED)    | Non-mandatory | Ready              | Conforms    | QA       | Pass   |

## UK Buyer Panel

| Parameter                   | Type      | Allowed limit/spec | Result   | Method    | Status |
|-----------------------------|-----------|--------------------|----------|-----------|--------|
| UK retained EU contaminants | Mandatory | Documented         | Conforms | Reg check | Pass   |
| UK FSA heavy metals         | Mandatory | Within limits      | Complies | ICP-MS    | Pass   |
| UK mycotoxin spec           | Mandatory | Within limits      | Complies | HPLC      | Pass   |
| UK pesticide MRL            | Mandatory | GB MRL / buyer     | Complies | LC-MS/MS  | Pass   |
| UK microbiology (retail)    | Mandatory | Within spec        | Complies | ISO       | Pass   |

## USA Buyer Panel (FDA/FSMA)

| Parameter                   | Type      | Allowed limit/spec | Result       | Method                 | Status |
|-----------------------------|-----------|--------------------|--------------|------------------------|--------|
| FDA FSMA / FSVP readiness   | Mandatory | Documented         | Conforms     | QA review              | Pass   |
| TAMC                        | Mandatory | < 100000 cfu/g     | < 8018 cfu/g | USP <2021> / ISO 4833  | Pass   |
| Yeast & mould               | Mandatory | < 10000 cfu/g      | < 355 cfu/g  | USP <2021> / ISO 21527 | Pass   |
| E. coli                     | Mandatory | Absent in 1g       | Absent       | USP <2022>             | Pass   |
| Salmonella                  | Mandatory | Absent in 25g      | Absent       | ISO 6579               | Pass   |
| US EPA tolerance (residues) | Mandatory | Compliant          | Complies     | LC-MS/MS               | Pass   |

## Non-EU International Buyer Panel

| Parameter                     | Type          | Allowed limit/spec  | Result   | Method       | Status |
|-------------------------------|---------------|---------------------|----------|--------------|--------|
| GCC (UAE / Saudi / Qatar) SPS | Mandatory     | Halal / contaminant | Conforms | Panel review | Pass   |
| Australia NZ MPI biosecurity  | Mandatory     | Import conditions   | Conforms | Doc + lab    | Pass   |
| Japan MHLW / Korea MFDS       | Mandatory     | Residual limits     | Complies | LC-MS/MS     | Pass   |
| Canada CFIA                   | Mandatory     | Food import         | Conforms | Panel        | Pass   |
| ASEAN (SG/MY/TH/VN)           | Mandatory     | Regional MRL        | Complies | LC-MS/MS     | Pass   |
| Buyer release index           | Non-mandatory | Composite score     | 92.8     | QA           | Pass   |

## Mandatory Release Parameters

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### Mandatory Release Parameters

| Parameter                          | Type      | Allowed limit/spec | Result        | Method           | Status |
|------------------------------------|-----------|--------------------|---------------|------------------|--------|
| Identity & grade confirmation      | Mandatory | Release critical   | Confirmed     | Buyer spec tests | Pass   |
| Trade marker result (see Chemical) | Mandatory | Decision-critical  | Within spec   | HPLC/GC/ASTA     | Pass   |
| Heavy metals panel                 | Mandatory | Release critical   | Within limits | ICP-MS           | Pass   |
| Mycotoxin panel                    | Mandatory | Release critical   | Within limits | HPLC             | Pass   |
| Microbial panel                    | Mandatory | Release critical   | Within limits | USP/ISO          | Pass   |
| Pesticide panel                    | Mandatory | Release critical   | Within limits | LC-MS/MS         | Pass   |

### Optional & Physical Quality

| Parameter                  | Type      | Allowed limit/spec | Result   | Method | Status |
|----------------------------|-----------|--------------------|----------|--------|--------|
| Packaging / seal integrity | Mandatory | Export             | Pass     | Visual | Pass   |
| Shelf-life / Apr-May stock | Optional  | Dispatch window    | Conforms | QA     | Pass   |

### Critical Export Decision Summary

| Parameter                         | Type      | Allowed limit/spec | Result   | Method         | Status |
|-----------------------------------|-----------|--------------------|----------|----------------|--------|
| Export buyer decision status      | Mandatory | All panels         | Approved | Composite      | Pass   |
| Domestic + EU + UK + USA + Non-EU | Mandatory | Multi-market       | All Pass | QA sign-off    | Pass   |
| Authenticity / adulteration       | Mandatory | Critical           | Pass     | Targeted tests | Pass   |
| Lot traceability Apr-May 2026     | Mandatory | ERP mapped         | Verified | ERP            | Pass   |

### General Notes

| Parameter          | Type | Allowed limit/spec    | Result   | Method       | Status |
|--------------------|------|-----------------------|----------|--------------|--------|
| Stock period       | Info | April-May 2026        | Covered  | QA           | Info   |
| NABL accreditation | Info | ISO/IEC 17025:2017    | Verified | Cert on file | Info   |
| Report validity    | Info | Sample & lot specific | Noted    | QA           | Info   |

### Remark:

COA backed with NABL approved lab. We have prepared this report for a recently shipped lot (April-May 2026 stock). Client information and material/supplier details are not shown in this COA (masked for presentation and confidentiality). Mandatory, non-mandatory and optional parameters reported; Domestic, EU, UK, USA and Non-EU panels: Pass. Scan QR on this report for Botanika Bharat access URL and report reference. Valid for this sample and lot only.

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