

TINTBEAUTY · COSMETIC ACTIVE

● AVAILABLE

Lumia C-phycocyanin E40

Freeze-dried C-phycocyanin from *Arthrospira platensis*. Sixty percent pure, no carrier. One INCI line for cosmetic formulators who refuse to compromise on label clarity.

01 · IDENTIFICATION & COMPOSITION

INCI	Spirulina Platensis Extract	PURE C-PC	60% w/w min · spectrometry
SOURCE	<i>Arthrospira platensis</i>		
ORIGIN	India · cultivated & processed	TOTAL PHYCOCYANIN	75% w/w min · spectrometry
PRODUCT CODE	TB-01	COLOR VALUE	400 min · 10% E, 618 nm
PROCESS	Aqueous extraction, freeze drying	CAS (C-PC)	724424-92-4
CARRIER / ADDITIVES	None	FUNCTION	Antioxidant, colorant

02 · PHYSICAL, CHEMICAL & SAFETY

APPEARANCE	Deep blue powder	LEAD (PB)	0.50 mg/kg max · ICP-MS
ODOR	Mild · algal	ARSENIC (AS)	0.50 mg/kg max · ICP-MS
SOLUBILITY	100% water soluble	CADMIUM (CD)	0.50 mg/kg max · ICP-MS
LOSS ON DRYING	5.0% max · USP <731>	MERCURY (HG)	0.025 mg/kg max · ICP-MS
BULK DENSITY	0.300 g/ml min · USP <616>	PESTICIDES	Per USP Std · USP <561>
TOTAL ASH	10.0% max · ASTA 3.0		

03 · MICROBIOLOGY

TOTAL PLATE COUNT	1,000 cfu/g max · USP <2021>	E. COLI	Absent · USP <2022>
YEAST & MOLD	100 cfu/g max · USP <2021>	ENTERO-BACTERIACEAE	Absent / 10 g · ISO 21528-2
SALMONELLA	Absent / 25 g	S. AUREUS	Absent · USP <2022>

PURE C-PHYCOCYANIN

60%

freeze-dried · no carrier · 400 CU min

INCLUSION RATE

0.05 to 1.0%

w/w in finished product, by application

04 · STABILITY

PH

Optimal 5.5 to 7.5. Acceptable to 4.5 with reduced retention. Encapsulation needed below 4.5 in liquids.

THERMAL

>90% color retention at 60 °C for 30 min. Significant degradation above 75 °C in aqueous solution.

LIGHT

Sensitive to UV and direct sunlight. Pack opaque or UV-protective for shelf-life retention.

05 · USE & DOSAGE

Suitable for serums (0.05 to 0.5%), O/W creams (0.1 to 0.5%), aqueous gels (0.1 to 0.3%), masks (0.2 to 1.0%), water-based color cosmetics (0.05 to 0.3%), and transparent shampoo (0.05 to 0.2%). Pre-disperse in cold deionized water (5 to 10% pre-mix), add to the water phase below 40 °C, and hold finished-product pH above 4.5. Full incorporation methods and starter formulas in the Lumia Application Guidelines.

06 · CERTIFICATIONS

ORIGIN	India
NOI · ISO 16128	1.00
NATRUE	Eligible
COSMOS	Eligible
VEGAN	Yes

07 · MARKET APPROVAL

EUROPE	CosIng
USA	FDA
CHINA	IECIC
JP / KR	Listed
LATAM	ANVISA

08 · STORAGE & STATUS

STORAGE	20–25 °C
SHELF LIFE	24 months
PACKAGING	1, 5, 25 kg
ALLERGENS	None
GMO	Non-GMO

DISCLAIMER

Specifications reflect our current production standard (rev. 2026). Information is provided in good faith; the customer is responsible for verifying suitability and finished-product safety and regulatory compliance. Full stability dossier under NDA on request.