

AURELUMIN™

Born in the rainforest, designed for radiant beauty



TECHNICAL PROFILE

INCI NAME	r-Physcomitrium patens extract
ORIGIN	Bioreactor-grown moss, Canada
KEY ACTIVE	Aureusidin (aurone flavonoid)
FORMAT	Powder or 80% glycerin concentrate
SOLUBILITY	Water, glycerin, emulsions
pH RANGE	4.5–6.5
USE LEVEL	0.5–2%
APPLICATIONS	Brightening, even tone, sensitive skin
SAFETY	Non-cytotoxic, non-mutagenic (in vitro)

THE INGREDIENT

Grown in moss

Aurelumin™ (INCI: r-Physcomitrium patens extract) is BryoSphere Biotechnologies' next-generation bioactive for dark spot and uneven tone formulations. Produced through proprietary moss cultivation, it is enriched in **aureusidin**, a rare aurone flavonoid, alongside moss-derived antioxidants and polyphenols.

HOW IT WORKS

Dark spots, at the source

Aurelumin™ inhibits human tyrosinase via aureusidin, reducing melanin synthesis at the enzymatic level. In *in vitro* assays, it achieved approximately **90% of the inhibitory activity of purified kojic acid** under identical conditions, with a stronger safety profile suited to sensitive skin (data on file).

~90%

of kojic acid's tyrosinase inhibition, in vitro

7%

bioactive flavonoids,
2.5× baseline moss

0.5–2%

recommended
use level

01 Even tone

Helps visibly improve the appearance of discoloration by inhibiting excess melanin production.

02 Antioxidant defense

Helps defend against environmental stressors linked to dullness and discoloration.

03 Calming

Helps reduce the appearance of redness and skin stress, for a more balanced complexion.

CONSUMER TRIAL

Early results in two weeks



WEEK 0



WEEK 2

Participant-reported: early dark spot fading, more even tone, smoother texture · 1.5% Aurelumin™ in Glaxal Base, n=4

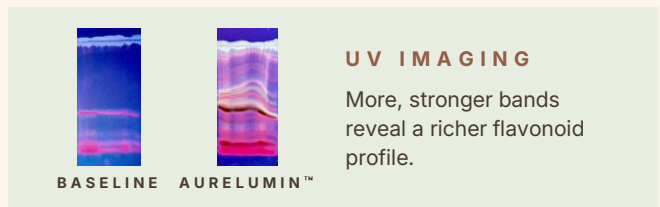
INSIDE THE INGREDIENT

What makes Aurelumin™ work



Aureusidin, the key active

The rare aurone flavonoid behind the golden color of snapdragons, delivered to inhibit tyrosinase, the enzyme behind excess melanin.



UV IMAGING

More, stronger bands reveal a richer flavonoid profile.

A rich flavonoid profile

7% bioactive flavonoids, 2.5× baseline moss: aureusidin with luteolin, quercetin, kaempferol and naringenin.



Formulation at a glance

Use level 0.5–2%, pH 4.5–6.5. Powder or 80% glycerin concentrate; water, glycerin and emulsion soluble.



Gentle by design

Non-cytotoxic and non-mutagenic in standard in vitro assays, and suited to sensitive skin.