ADVANCED NUTRACEUTICALS

INGREDIENT CATALOGUE 2026

CROCUS SATIVUS L. · DUAL-STANDARDIZED EXTRACT

Saffrion 42™

A premium saffron extract ingredient for dietary supplements.

- Crocins ≥ 3.0%
- Safranal ≥ 1.2%
- trans:cis ≥ 85:15

30 mg PER CAPSULE · ONCE DAILY



THE INGREDIENT

Tradition, *measured.*

SAFFRION 42™ is a standardized extract from the stigmas of the saffron flower, *Crocus sativus* L. It connects saffron's long tradition of use with measurable characterization of crocins and safranal, for dietary supplement development in mood, stress management and sleep quality.

SOURCE	Saffron stigmas · *Crocus sativus* L.
EXTRACTION	Water
SUPPLIED AS	Orange-red powder, maltodextrin carrier
MARKERS	Crocins · Safranal



DUAL STANDARDIZATION

Two markers. *Two minimums.*

Dual standardization sets a separate minimum content for each marker. It is the basis for monitoring consistency from batch to batch.



COLOUR MARKER

≥ 3.0%

MINIMUM IN SPECIFICATION

Crocins

Water-soluble carotenoid pigments that carry sugar groups. They give saffron its colour. [4]

AROMA MARKER

≥ 1.2%

MINIMUM IN SPECIFICATION

Safranal

A volatile compound of the monoterpene family. It gives saffron its characteristic aroma. [4]

BATCH CHARACTERIZATION

Specification vs. *batch 25032305*

Reported marker content for batch 25032305, measured against the dual specification.

MARKER	SPEC. MINIMUM	BATCH 25032305
Crocins*	3.0%	4.205%
Safranal	1.2%	1.325%
Total of both markers	**4.2%**	**5.530%**

* The batch crocin value is reported as the sum of crocin derivatives by UPLC for batch 25032305 (ZHS251110), as summarized by Alkemist Labs. Quantification scope and peak identification are documented in the original laboratory report and chromatograms, available on request. The marker total represents the reported batch.



WHAT A SERVING DELIVERS

In every *30 mg.*

Calculated from the specification minimums, a 30 mg serving of SAFFRION 42™ provides at least:

0.90 mg	crocins
0.36 mg	safranal
85:15	minimum trans:cis crocin ratio in specification

30 MG PER CAPSULE · ONCE DAILY





DUAL-ACTIVE DESIGN

Two compounds, *two pathways.*

SAFFRION 42™ pairs two characterized saffron compounds in one extract. Preclinical research points to complementary pathways.

I SEROTONERGIC PATHWAY

Crocins

Studied for interaction with serotonergic signalling, including serotonin availability. Preclinical models also explore neuroplasticity signalling and antioxidant activity.

II GABAERGIC PATHWAY

Safranal

Associated in preclinical research with modulation of GABAergic activity, linked to the relaxation response and neural excitability balance.

DESIGN RATIONALE One standardized extract, two complementary research targets: emotional tone and calm.

Mechanistic descriptions summarize preclinical literature. They are not health claims for the ingredient or for finished products.

SCIENTIFIC BACKGROUND

What saffron research *has shown.*

Placebo-controlled trials with a different saffron extract found improvements in some measures of mood, stress and sleep. They provide background for the category, not evidence for SAFFRION 42™ itself. [1,2,3]

2017

MOOD

POPULATION
Healthy adults

PROTOCOL
Double-blind, placebo-controlled · 4 weeks

FINDING
Improved mood scores vs. placebo

[1] Kell et al., 2017

2020

SLEEP

POPULATION
Adults with poor sleep · 55 of 63 analysed

PROTOCOL
28 mg/day · 28 days

FINDING
Improvement in sleep measures

[2] Lopresti et al., 2020

2025

MOOD

POPULATION
202 adults with subclinical depressive symptoms

PROTOCOL
28 mg/day · 12 weeks

FINDING
Advantage on the depression measure; no difference on the overall secondary measures

[3] Lopresti et al., 2025

A dedicated clinical study of SAFFRION 42™

Planned; results not yet reported. Efficacy, tolerability, dose and time to effect for this extract require dedicated data.

Results expected Q1 2027

DEVELOPMENT AREAS

Where Saffrion 42™ *fits your range.*

A branded ingredient for dietary supplement formulations across several wellness categories.

01
Mood support
Daily emotional-wellness formulas.

02
Stress resilience
Adaptogenic support for demanding, modern lifestyles.

03
Emotional balance
Multi-pathway formulas for a balanced emotional tone.

04
Sleep support
Evening relaxation and wind-down formulas.

05
Adaptogenic stacks
Combined with complementary botanicals.

06
Women’s balance
Formulas for women’s emotional wellbeing.





Consumer claims for finished products are subject to the regulatory requirements of each target market.

FORMULATION

Ready for capsules. *Open to more.*

SAFFRION 42™ is water-extracted and supplied as an orange-red powder with maltodextrin as carrier, ready for capsules and tablets.

Powders, beverages and gummies are possible with development: dispersion, taste, colour and stability must be validated, both in process and in storage.



Capsules	Ready to formulate
Tablets	Ready to formulate
Powders & sticks	Validation required
Beverages	Validation required
Gummies	Validation required

Combinations

Magnesium · B vitamins · Botanicals

Compatibility and efficacy are assessed for each formula.

TECHNICAL PROFILE

Analytical *specifications.*

Botanical source	*Crocus sativus* L., stigma
Extraction solvent	Water
Carrier	Maltodextrin
Appearance	Orange-red powder
Total crocins	≥ 3.0% w/w
Safranal	≥ 1.2% w/w
trans:cis crocin ratio	≥ 85:15
Moisture	≤ 5%
Total ash	≤ 5%
Heavy metals	Limits set in specification
Microbiology	Requirements set in specification



Quality architecture

- ✓ Dual-marker standardization
- ✓ Lot-to-lot consistency monitoring
- ✓ Controlled trans:cis crocin ratio
- ✓ Chromatographic marker analysis
- ✓ Kosher certified
- ✓ Halal certified

QUALITY & PARTNERSHIP

Documented quality, *end to end.*

FSSC 22000

ISO 22000:2018

SGS certificates for the manufacturing site, valid 31 Oct 2026 – 30 Oct 2029, with a scope that includes saffron extracts. The certifications cover the food safety management system.

Documentation available

- Technical data sheet (v1.1)
- Batch laboratory report
- SGS certificates
- Manufacturer specification
- Chromatographic fingerprint
- Allergen statement



ADVANCED NUTRACEUTICALS

From ingredient to finished product

Advanced Nutraceuticals develops finished supplements with SAFFRION 42™, from formulation and validation to production, with Eurofins testing and operations in Europe and the United States.

Capsules · Gummies · Chewing gum · Softgels · Pouches

ADVANCED NUTRACEUTICALS

LET'S TALK BUSINESS

Bring *Saffrion 42* ™ into your range.

Request technical documentation, samples and pricing.

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REFERENCES

[1] Kell et al., 2017. Mood in healthy adults, 4 weeks. PMID 28735826

[2] Lopresti et al., 2020. Sleep quality in adults with poor sleep. PMID 32056539

[3] Lopresti et al., 2025. Mood in adults with subclinical depressive symptoms. PMID 40414301

[4] Main bioactive compounds of saffron, 2024. PMC11243231

Source documents: SAFFRION 42 TDS v1.1, manufacturer specification, product story, chromatographic fingerprint and SGS certificates.

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