What is Hexylresorcinol?

The ingredient behind Lysonome HEXA

MULTIFUNCTIONAL INGREDIENT



HEXA

WHAT IS HEXYLRESORCINOL?

Hexylresorcinol is a synthetic organic compound used in skincare for brightening, dark spot reduction and anti-aging benefits. It is the ingredient behind the name of Lysonome's HEXA line.

WHY IT IS USED

By helping regulate melanin production, hexylresorcinol supports a brighter, more even complexion. It also offers antioxidant and anti-inflammatory benefits that support overall skin appearance.

FROM INSPIRATION TO FORMULATION

01 Inspired by natural compounds

Hexylresorcinol is inspired by alkylresorcinols found naturally in the bran of rye and other cereals.

02 Produced by organic synthesis

For cosmetic use, hexylresorcinol is typically produced through organic synthesis.

03 Formulated with complementary ingredients

Hexylresorcinol can be paired with niacinamide, vitamin C and retinoids to support brightening and other skincare benefits.

THE HEXA APPROACH

Brightening

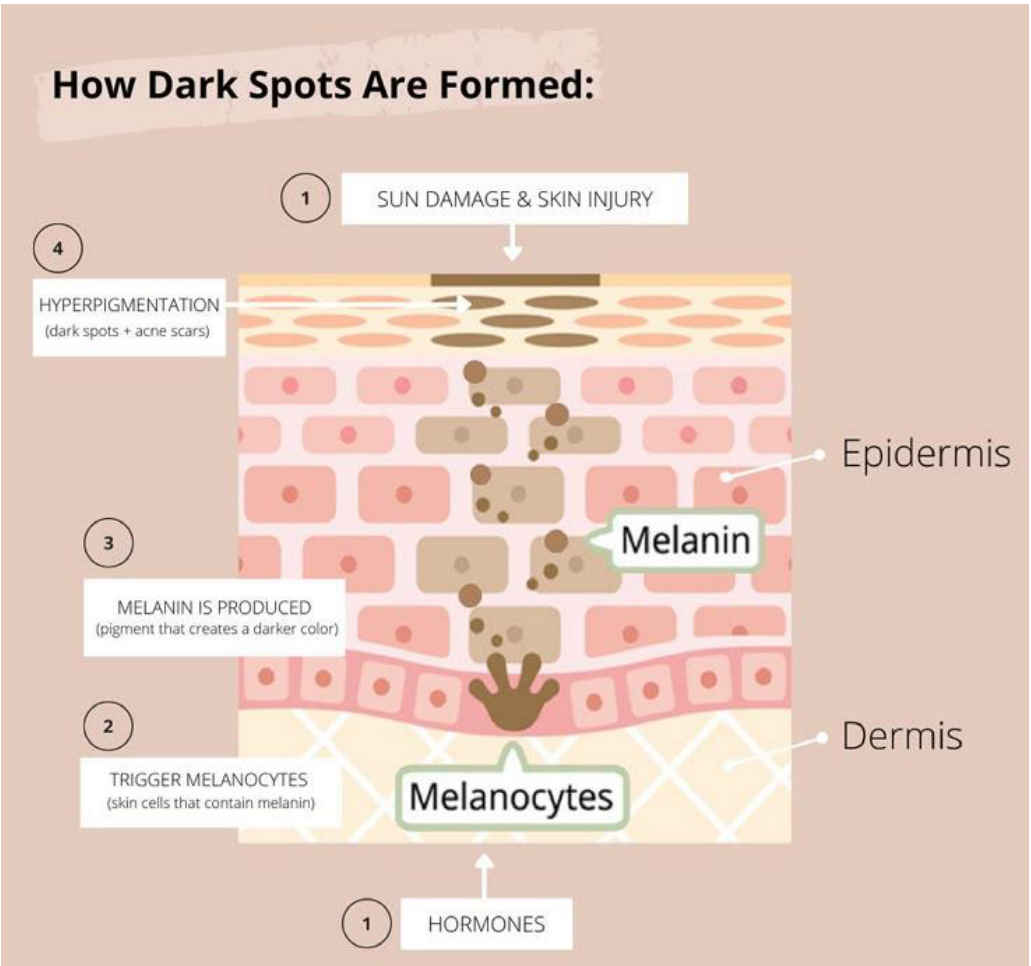
A brighter, clearer and more even-looking complexion.

Sources: Lysonome presentation, pp. 55-60. Original illustration: p. 56.

How Hexylresorcinol works

Melanin production, dark spots and uneven tone

Hexylresorcinol targets pathways involved in excess pigmentation while also providing antioxidant and anti-inflammatory benefits.



Dark-spot formation diagram from the Lysonome presentation.

01 MELANIN PRODUCTION

How dark spots form

Melanocytes are skin cells that make melanin, the pigment that gives skin its color. Sun damage, skin injury and hormonal signals can trigger increased pigment production, contributing to dark spots and uneven tone.

02 HEXYLRESORCINOL'S ACTION

Inhibiting tyrosinase

Hexylresorcinol inhibits tyrosinase, a key enzyme in melanin production. By interrupting this pathway, it helps reduce hyperpigmentation and improve the uniformity of skin tone.

Sources: Lysonome presentation, pp. 58-60. Original diagram: p. 58.

Benefits & skincare uses

Brightening, tone correction and ongoing care

Hexylresorcinol helps reduce the appearance of dark spots and uneven tone while supporting skin firmness, antioxidant protection and a more luminous complexion.



Study example: a 49-year-old woman treated with 0.4% hexylresorcinol (HR) + 3% niacinamide. Baseline and 12-week photos reproduced from the presentation.

BRIGHTER, MORE EVEN TONE

Reduces excess pigmentation and supports a more uniform complexion.

DARK SPOT REDUCTION

Helps fade the appearance of dark spots, freckles and age spots.

FIRMNESS & FINE LINES

Helps limit glycation, where sugars bind to skin proteins, supporting firmness and clarity.

ANTIOXIDANT & SOOTHING CARE

Helps protect against oxidative stress and calm inflammation.

IN LYSONOME SKINCARE

HEXA Infuse Complex

For brightening facial treatments, with or without microneedling. See the protocol sheet for recommended depths.

HEXA Glow Serum

A brightening serum for post-treatment and daily use.

HEXA Aster Cream

A brightening cream for post-procedure and daily use.

HEXA Sparkling Powder Cream

Brightening powder that turns into a cream when rubbed in. For daily use.

Sources: Lysonome presentation, pp. 55, 58-60, 62; HEXA product sheets.