



MELAZERO[®]

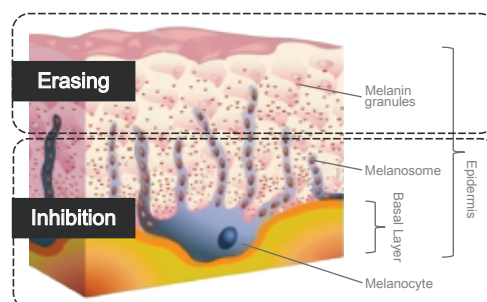
Nature to Innovation

Phyto Whitening agent through
Novel mechanism

Total Solution for Whitening



- Created Melanin (Melanophagy)
- Melanin Synthesis



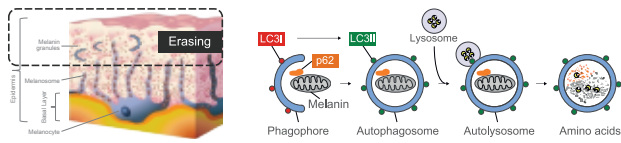
The 3rd generation whitener from “Arisaema amurense”.

Innovative whitening mechanism named “Melanophagy”(Autophagy : Nobel prize 2016)

Rapid whitening effect within 2 weeks. No cytotoxicity, No skin irritation.

What is 'Melanophagy' ? (Autophagy in melanocyte)

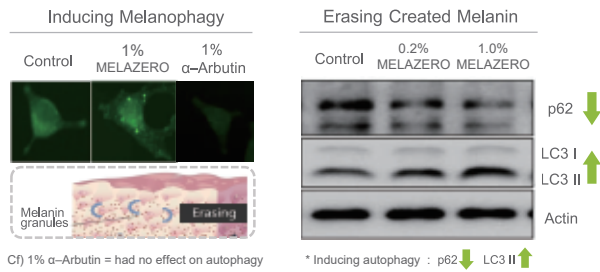
Novel pathways for Whitening - Melanophagy mechanism



- Step 1 When phagophore is formed, **p62** binds to targeted melanin.
- Step 2 While phagophore becomes autophagosome, **LC3I** is converted to **LC3II**.
- Step 3 Autophagosome fuses with lysosome containing enzymes and autolysosome is formed.
- Step 4 Melanin is degraded to amino acids by lysosomal enzymes and released to cytoplasm.

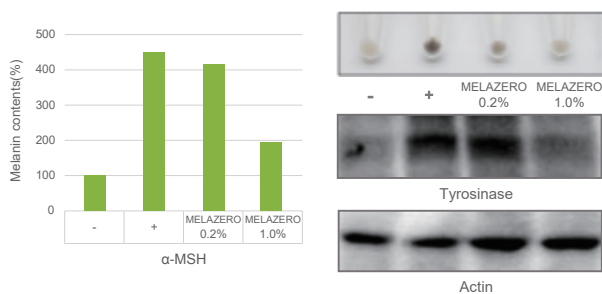
Erasing Created Melanin-Melanophagy

Melanophagy is induced in Melanocyte



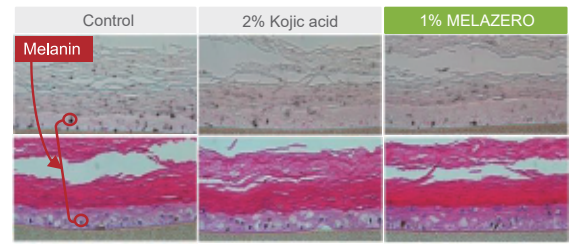
Melanin synthesis inhibition

Melanin Contents Analysis

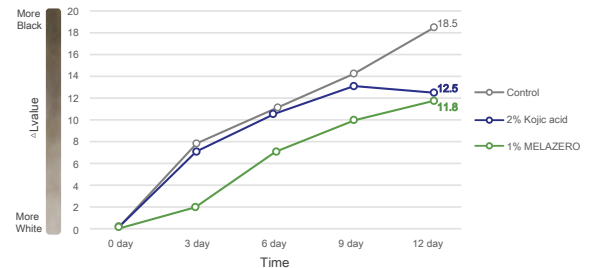


Whitening effect -3D Cell

2% Kojic acid VS 1% MELAZERO



△L value (0: more white / 20: more black)
Control : 18.5 / Kojic acid 2% : 12.5 / MELAZERO 1% : 11.8



More Effective than Kojic acid

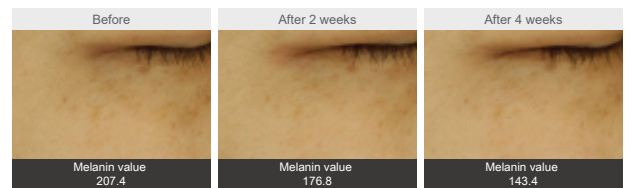
Clinical Test - Hyperpigmentation

Clinical Test (22 persons, Hyperpigmentation)



'More Rapid Effect than α-Arbutin'

The result of whitening effect



Composition

Information of Ingredients



한글명	INCI name
동근잎천남성추출물	Arisaema Amurense Extract
데실글루코사이드	Decyl glucoside
1,2-헥산다이올	1,2-Hexanediol

Patent No. 10-1814065

Composition for promoting decomposition of melanin



Recommended dosage

