

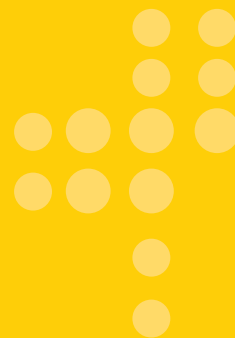
FLORANT-CS

- For Anti-photo aging agent -

Applicable products of FLORANT-CS

Skin care: Lotion, Toner, Cream, etc

Body care : Lotion, Cream, etc.



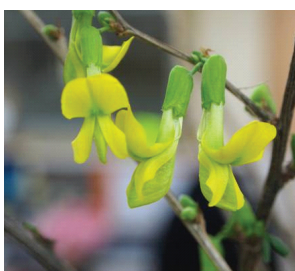
What is FLORANT-CS ?

FLORANT-CS is composed of Cytisus scoparius flower extract and have anti-photo aging effect.

RADIANT R&D center found that excellent effect for protection against UV light induced skin damage.

About

"Cytisus scoparius"

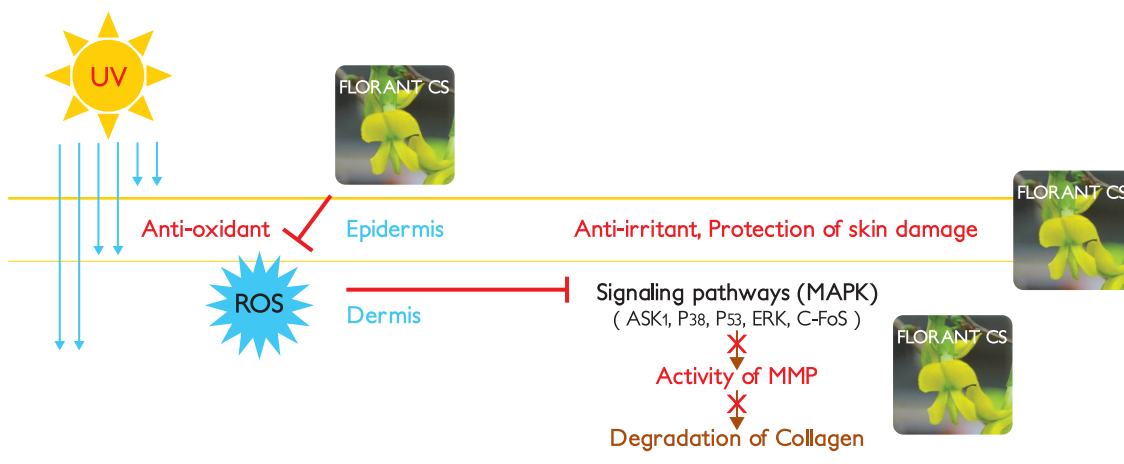


Common name	Common Broom, Scotch Broom
Latin name	Cytisus scoparius

Cytisus scoparius, the Common Broom and Scotch Broom, is a perennial leguminous shrub native to western and central Europe. Cytisus scoparius is found in sunny sites, usually on dry, sandy soils at low altitudes and widely cultivated as an ornamental plant.

C. scoparius contains flavones like 6"-O acetylscoparin, flavonols, namely rutin, quercetin, isorhamnetin and kaempferol and some isoflavones like genistein and sarothamnoside.

Proposed mechanism for FLORANT-CS



In Epidermis

- FLORANT-CS has anti-oxidant effect and protection effect against UVB-induced damage in keratinocyte.
- FLORANT-CS has anti-skin Irritation effect (Skin recovery effect when have skin damage)

In Dermis

- FLORANT-CS has protection effect against UVA-induced skin damage (protection of Collagen, MMP-1 activity)

SPECIFICATION

INCI Name

Color

Preservative

Packing unit

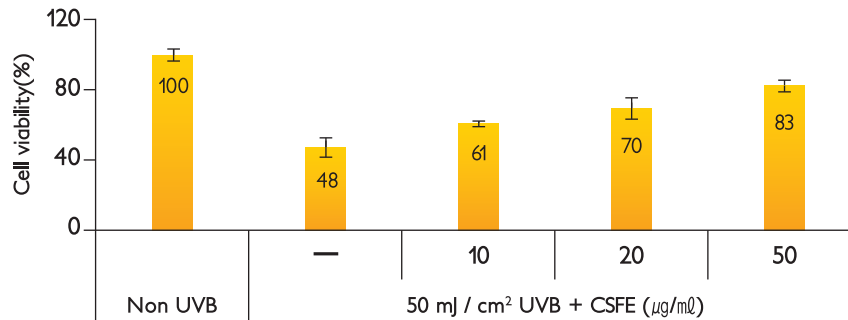
Shelf life

Dosage

Water / Butylene Glycol / Cytisus scoparius flower extract
Light yellow
Non-added
5kg / 10kg / 20kg
2 years
0.5~2%

Main Biological Effects for Cosmetics

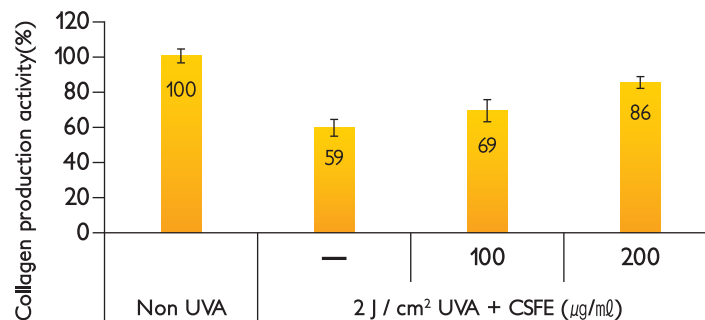
● Protection against UVB-induced damages in human Skin Keratinocyte.



CSFE: *Cytisus scoparius* flower extract

CSFE treated group showed decreased the UVB toxicity as a dose dependent manner.

● Protection against UVA-induced damages in human Skin Fibroblast



Cytisus Scoparius Flower Extract was found to significantly increase type I pro-collagen production in Human fibroblasts when compared with UVA treated control.

● Anti-Skin Irritation effect (In vivo test)

Erythema index (EI)	FLORANT-CS		Placebo (No treatment)
	1%	3%	
Control	173.23 ± 30.51		
SLS treated (1%)	371.55 ± 28.98		
After 24hr	324.10 ± 193.21	298.47 ± 18.91	347.13 ± 29.63
Skin recovery effect (%)	24	37	13

For checked about anti-irritation effect, we treated SLS(1%) instead of UV light. FLORANT-CS showed good effect for cure skin erythema and it can be use as an anti-aging ingredient.