

Unique active solution with
UAT

Calmskin A7

Perfect Soothing Complex



UAT
Unlimited Active Technology

유에이티



500 Oriental Medicinal Herbs

1단계
Bioavailability screening

- Anti-oxidation assay
- Anti-inflammation assay

2단계
Efficacy & Safety
screening

- *In vitro* efficacy assay
- Toxicity

3단계
Optimizing
for Perfect Soothing

- *In vitro* assay for Anti-inflammation
- *In vivo* assay for Atopic dermatitis

Calmskin A7

Calmskin Natural Series

1. 어성초 추출물
(Houttuynia Cordata Extract)
2. 한련초 추출물
(Eclipta Prostrata Extract)
3. 하수오 추출물
(Polygonum Multiflorum Root Extract)
4. 오죽잎 추출물
(Phyllostachys Nigra Leaf Extract)
5. 쑥기풀 추출물
(Urtica Dioica (Nettle) Extract)

Anti-inflammatory Essential Active

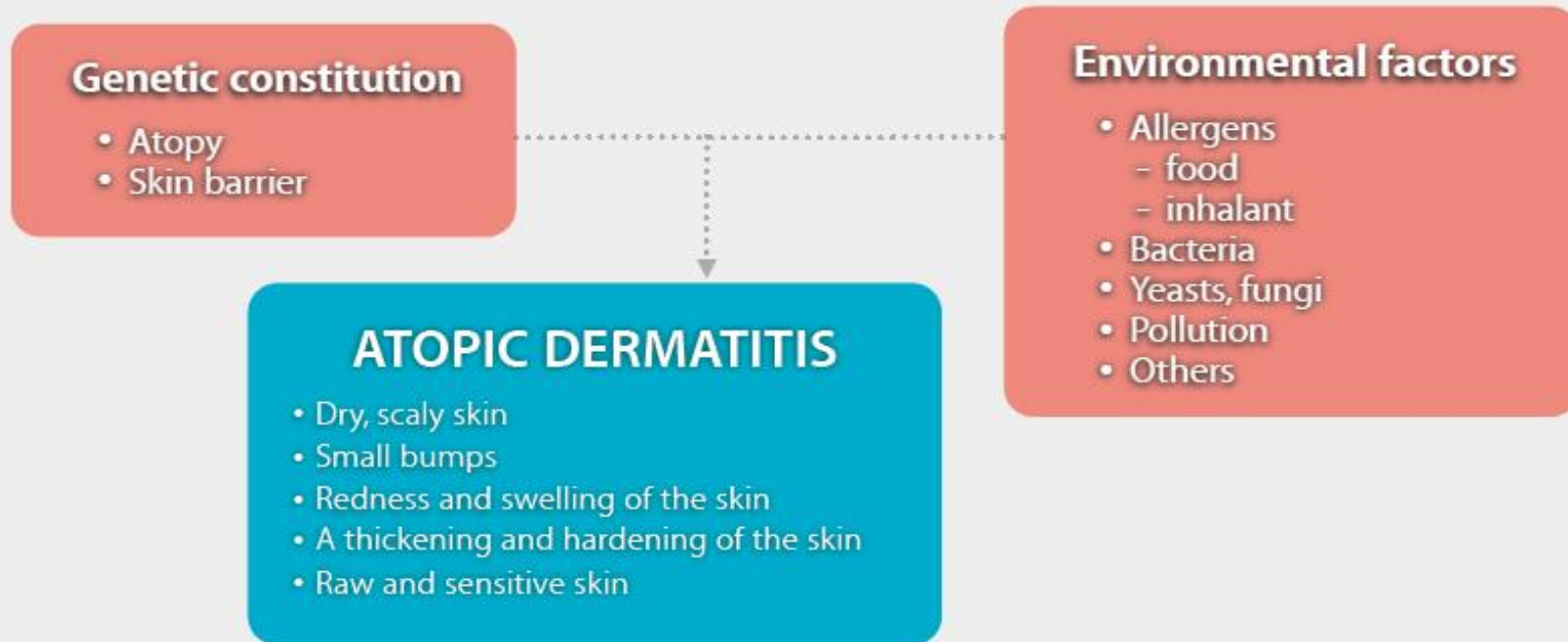
1. 병풀 추출물 : Asiaticoside외 3성분
(Centella Asiatica Extract)
2. 시계꽃 추출물 : Chrysin
(Passiflora Incarnata Extract)

Calmskin Natural Series 5 + Anti-inflammatory Essential Active 2

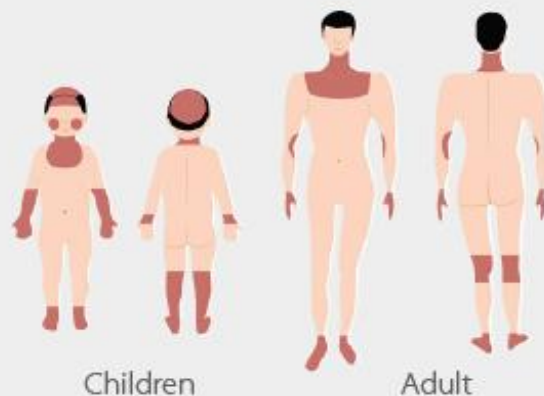
➡ **Calmskin A7**

◆ Contents guarantee by analyze

- Asiaticoside/Asiatic Acid/Madecassoside/
Madecassic Acid : 2,000ppm
- Chrysin : 200ppm

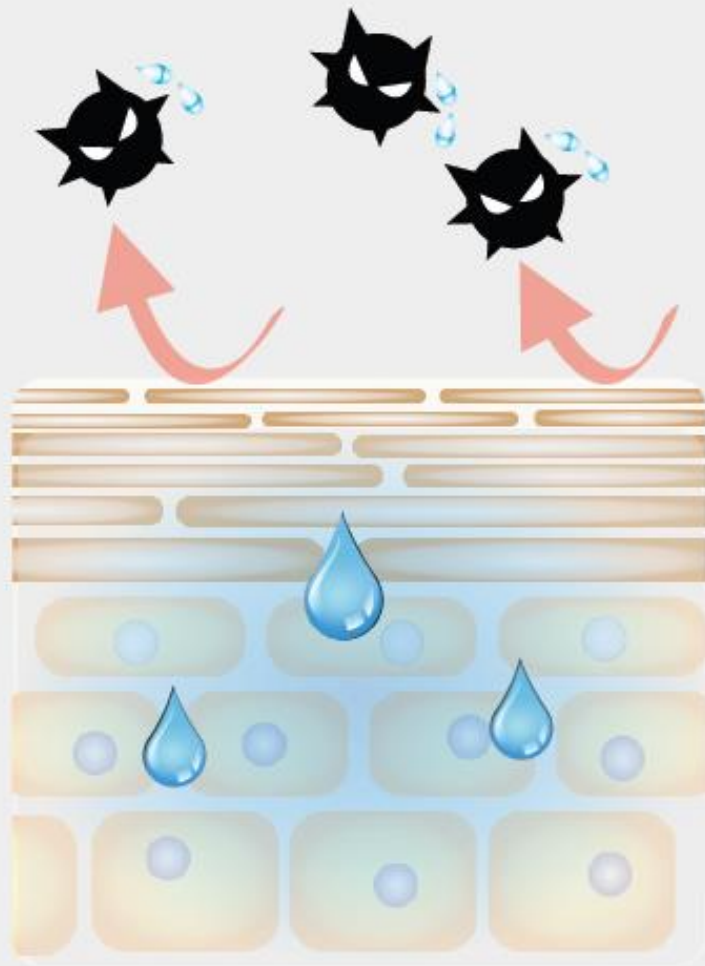


Common sites of AD

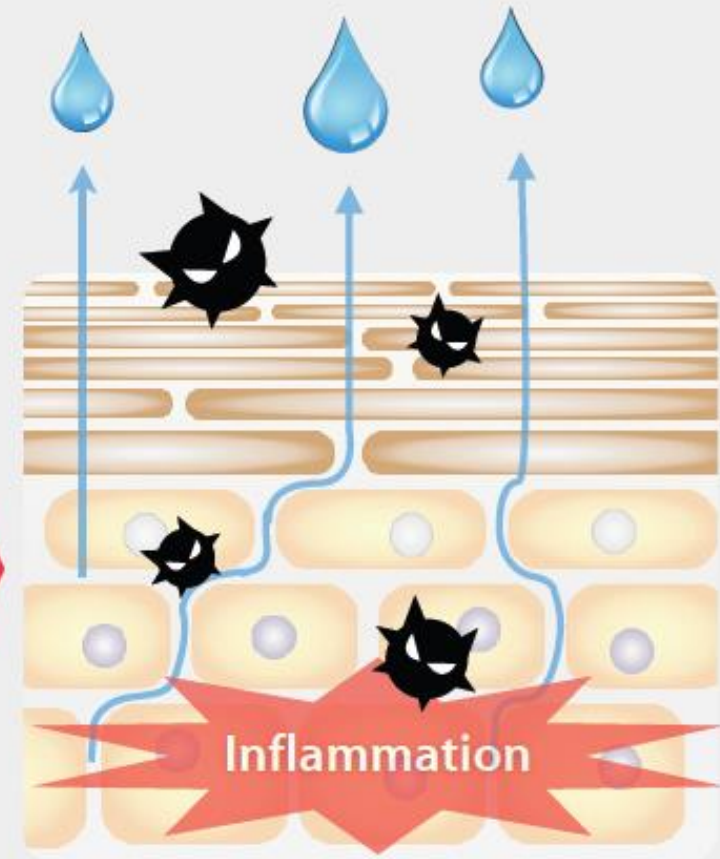


Symptom of AD

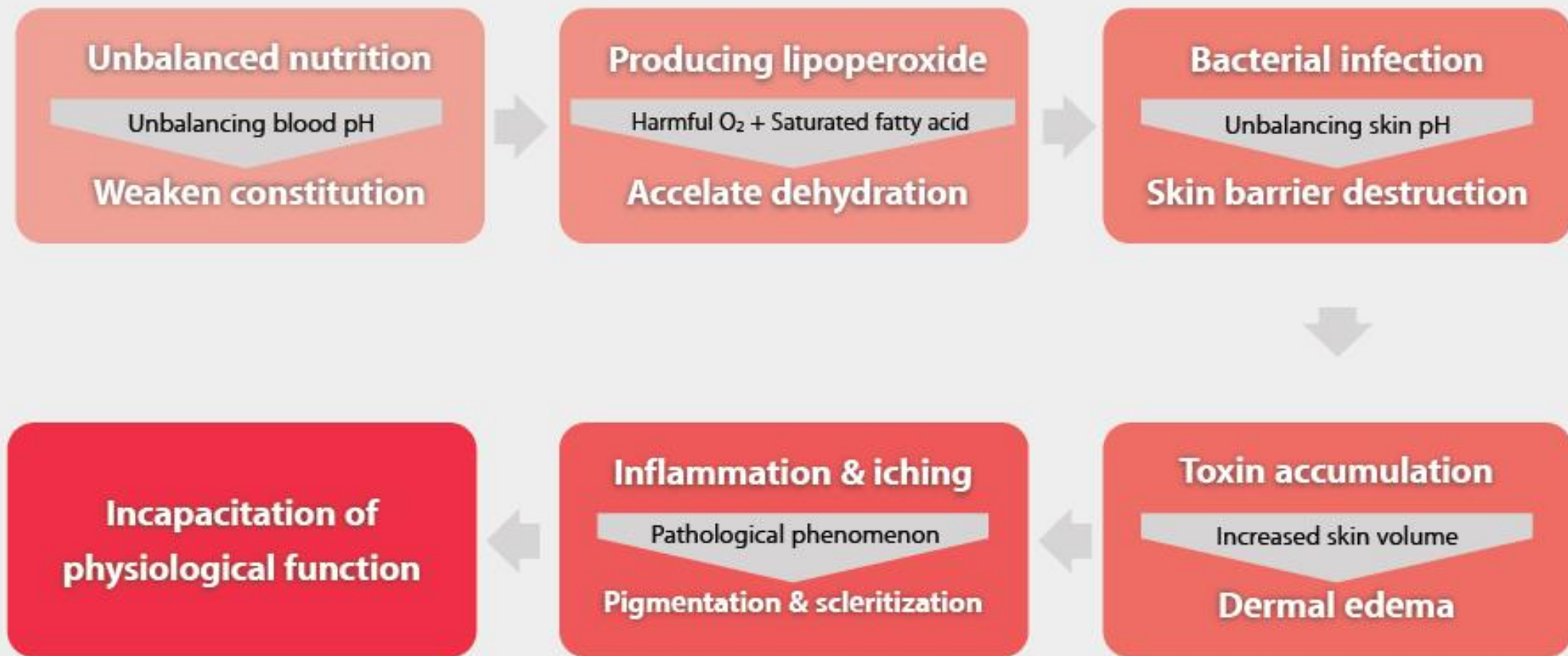


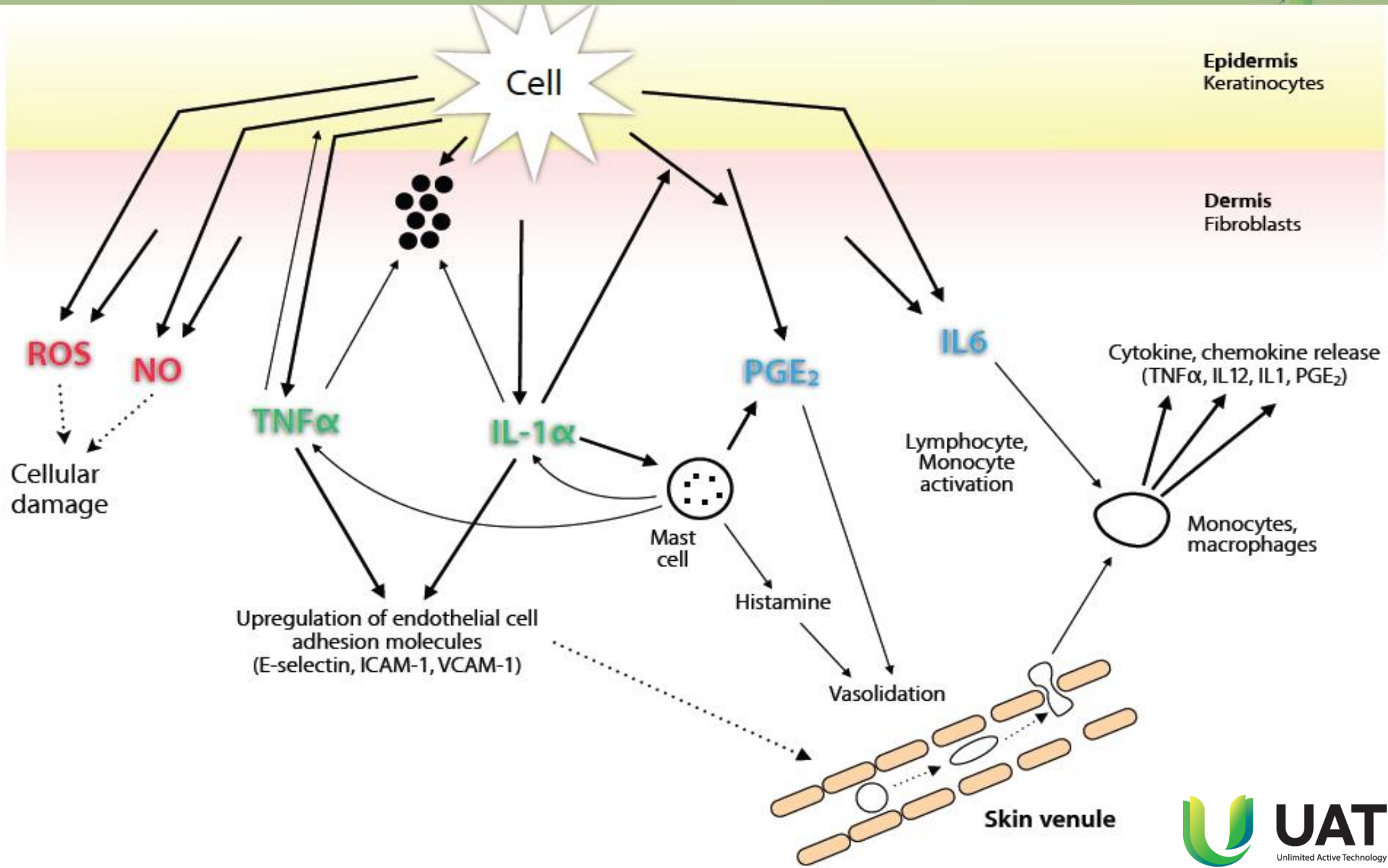


Normal skin



Atopy dermatitis skin





Anti-oxidation

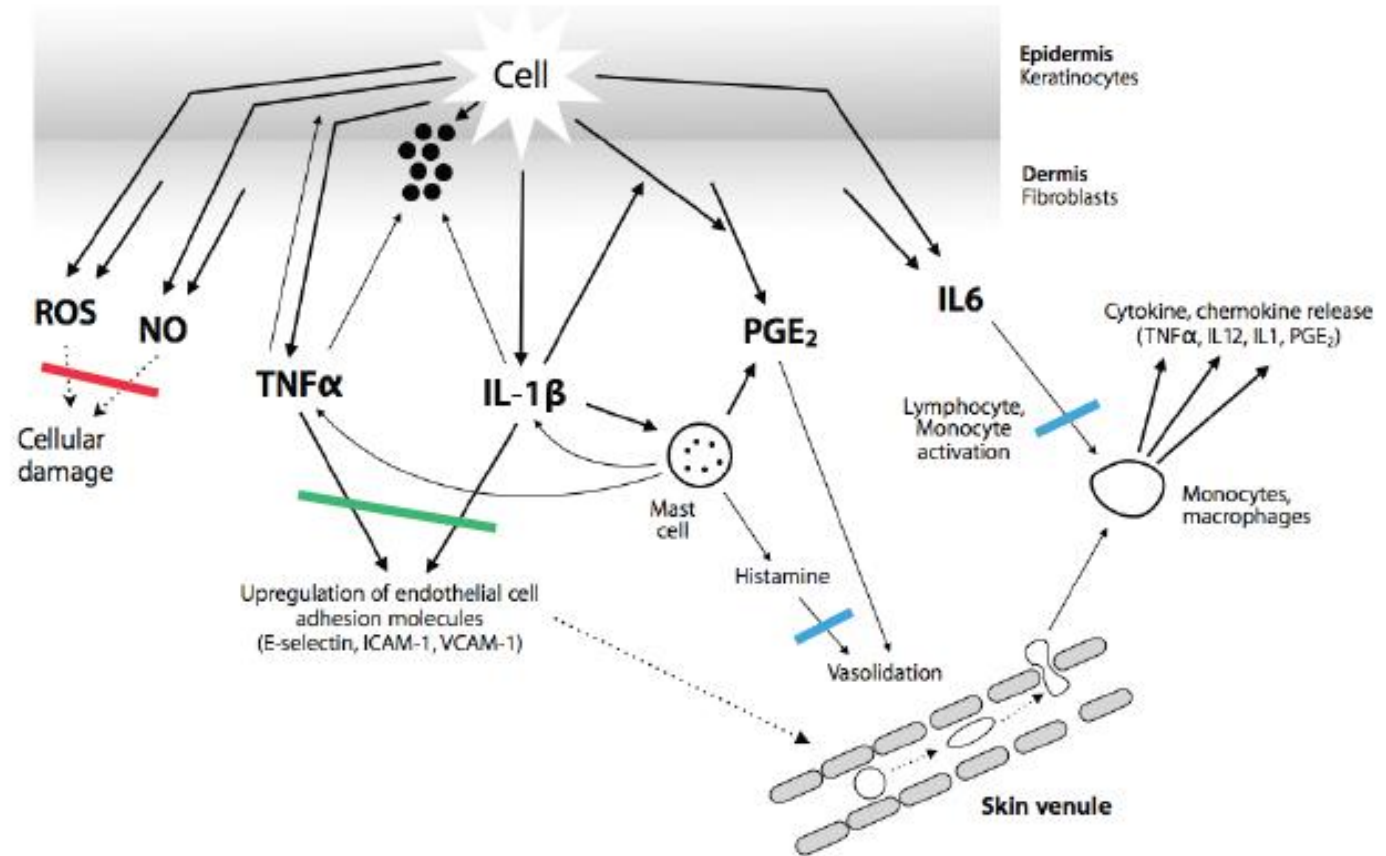
- Free radical scavenging
- NO production

Anti-inflammation

- TNF- α production
- IL-1 β production
- NF-kB production

Anti-itching & Immunomodulation

- Histamine activity
- IL-6 production



Proven outstanding effect

Efficacy

Calmskin Natural Series 5



어성초



한련초



하수오



오죽잎



쑥기풀



Anti-inflammatory Essential Active 2



병풀



시계꽃

Calmskin A7

◆ *in-vitro* for anti-inflammation

- TNF- α production
- IL-1 β production
- NF-kB production

◆ Anti-oxidation

- Free radical scavenging
- NO production

◆ *in-vitro* for immunomodulation

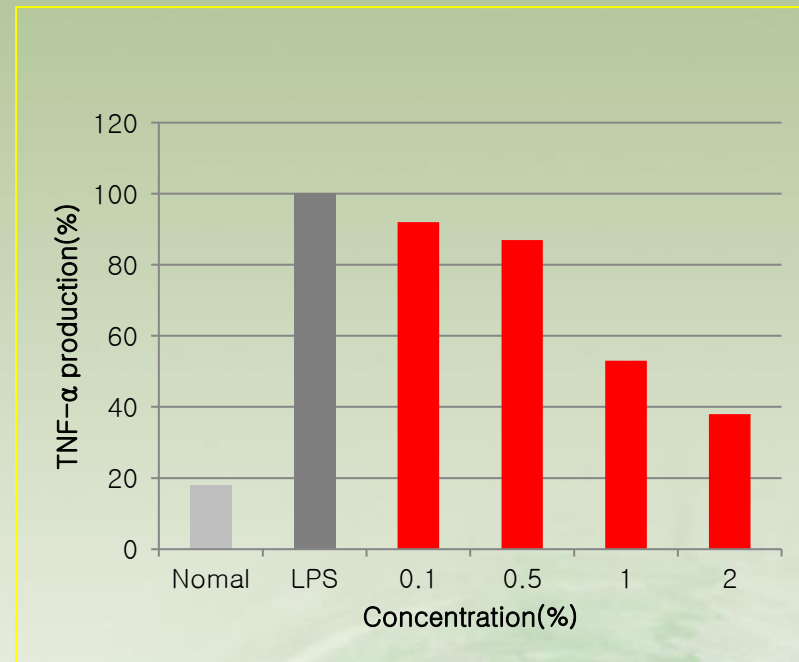
- Histamine activity
- IL-6 production



Inhibition of TNF- α production

Effects of lipopolysaccharide (LPS)-induced TNF- α production.

- Cells treated with 1-10 $\mu\text{g/ml}$ of each sample in the presence of 1 $\mu\text{g/ml}$ LPS or with LPS alone for 24hr.
- The results are expressed as mean $\pm$ SD from three independent experiments.

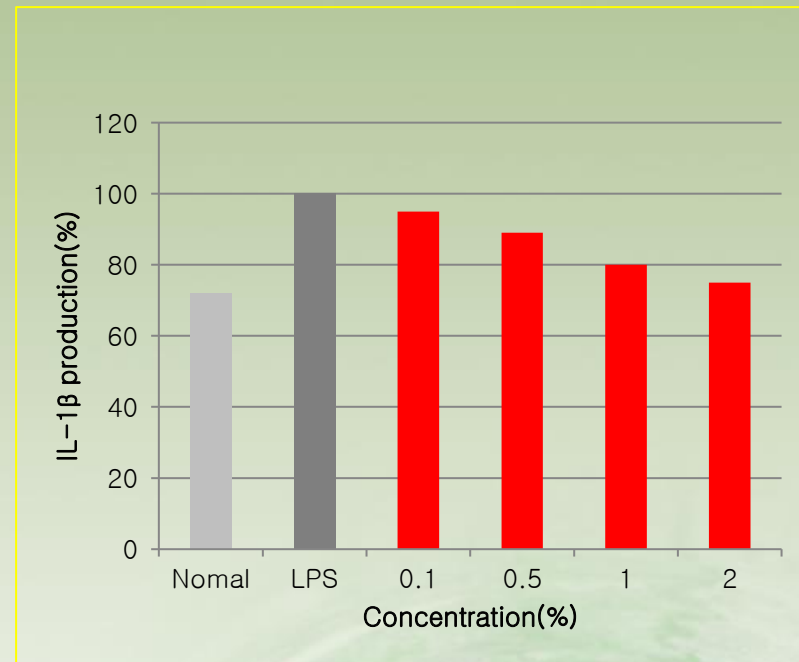




Inhibition of IL-1 β production

Effects of lipopolysaccharide (LPS)-induced IL-1 β production.

- Cells treated with 1-10 $\mu\text{g}/\text{ml}$ of each sample in the presence of 1 $\mu\text{g}/\text{ml}$ LPS or with LPS alone for 24hr.
- The results are expressed as mean $\pm$ SD from three independent experiments.

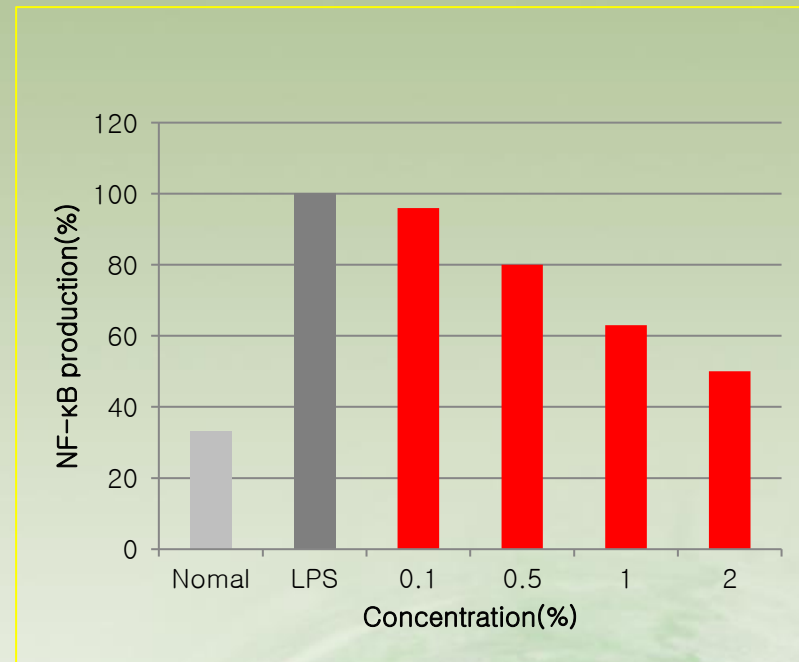




Inhibition of NF- κ B Production

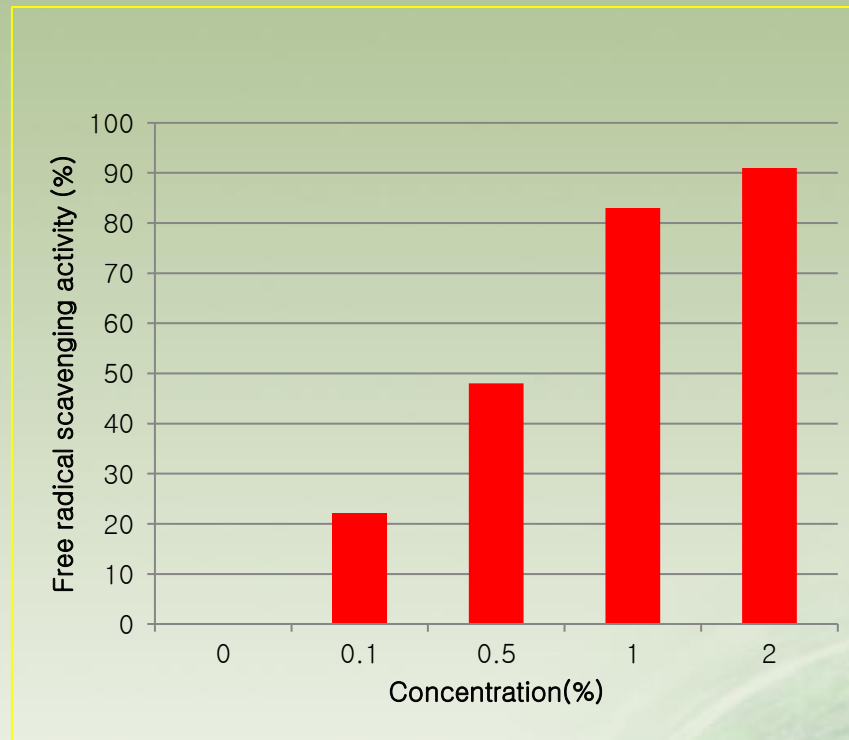
Effects of lipopolysaccharide (LPS)-induced NF- κ B production.

- Cells treated with 1-10 μ g/ml of each sample in the presence of 1 μ g/ml LPS or with LPS alone for 24hr.
- The results are expressed as mean $\pm$ SD from three independent experiments.





DPPH assay

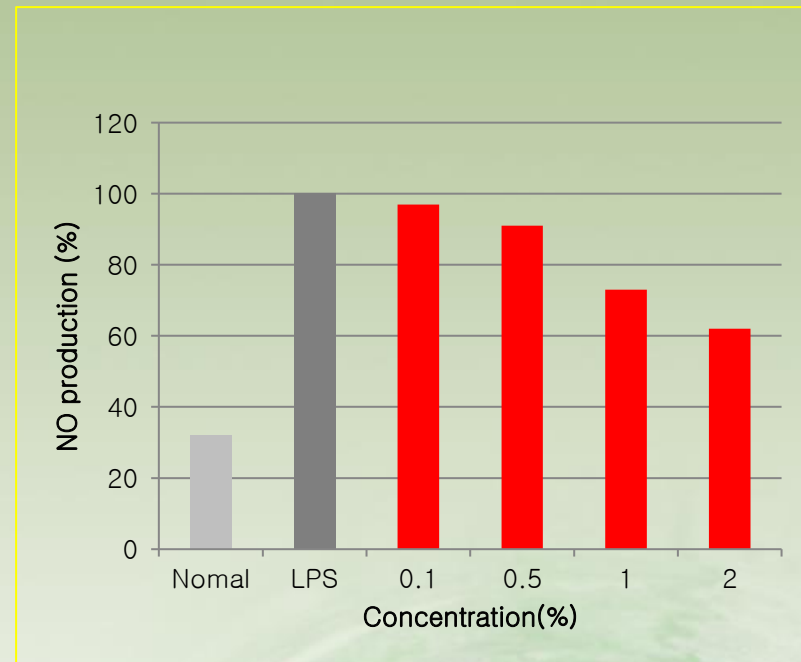




NO production Inhibition assay

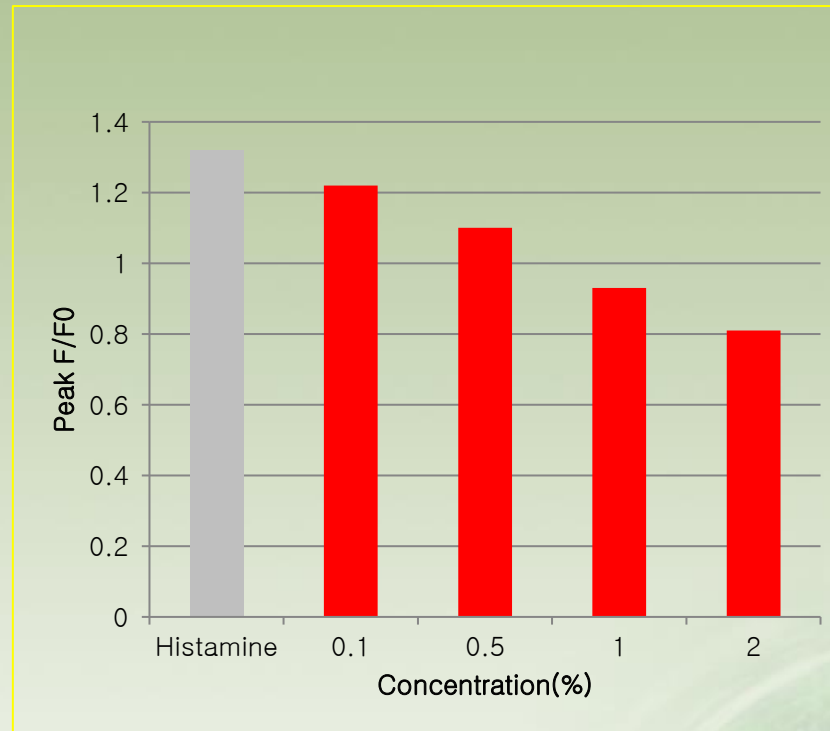
Effects of lipopolysaccharide (LPS)-induced nitrite(NO) production.

- Cells were stimulated with LPS(1ug/ml) and treated with 1-10 ug/ml of each sample for 24hr.
- The results are expressed as mean $\pm$ SD from three independent experiments.





Inhibition of histamine activity

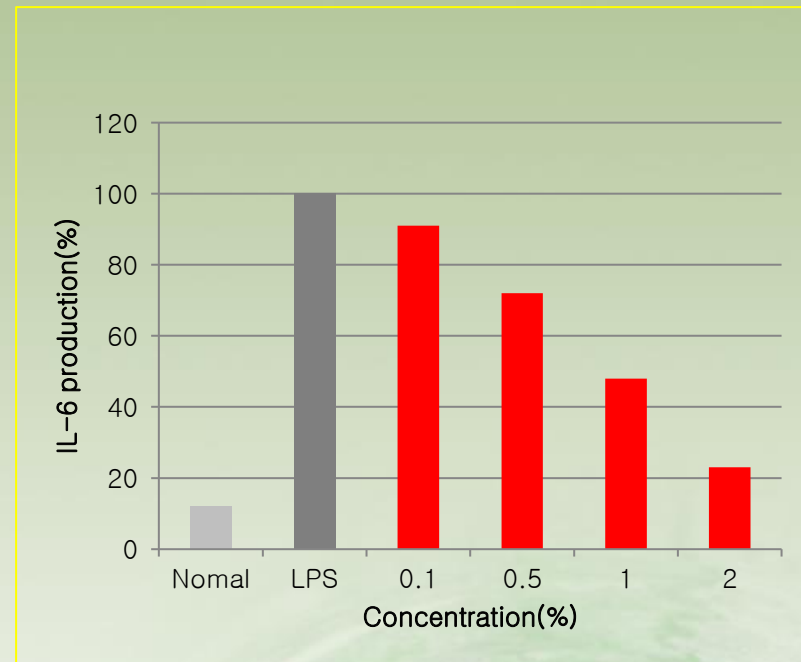




Inhibition of IL-6 production

Effects of lipopolysaccharide (LPS)-induced IL-6 production.

- Cells treated with 1-10 ug/ml of each sample in the presence of 1 ug/ml LPS or with LPS alone for 24hr.
- The results are expressed as mean $\pm$ SD from three independent experiments.





Skin Irritation Patch Test

- Cream containing 5% Calmskin A7 is safe in the human skin patch test.
- Tested to healthy 25 females(23~45 years old)
- ICDRG(International Dermatitis Group) Standard

◆ Average irritant degree

Calmskin A7(5%) : 0.02

(Standard : Below 0.2)



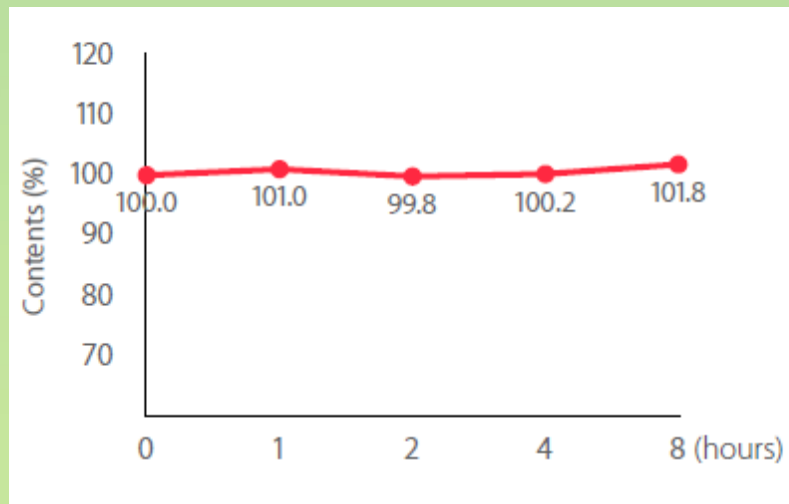
Thermal & Light Stability

According to the result of stability test, Calmskin A7 is stable to heat and light

Thermal stability

HPLC analysis / 85°C, 8hrs.

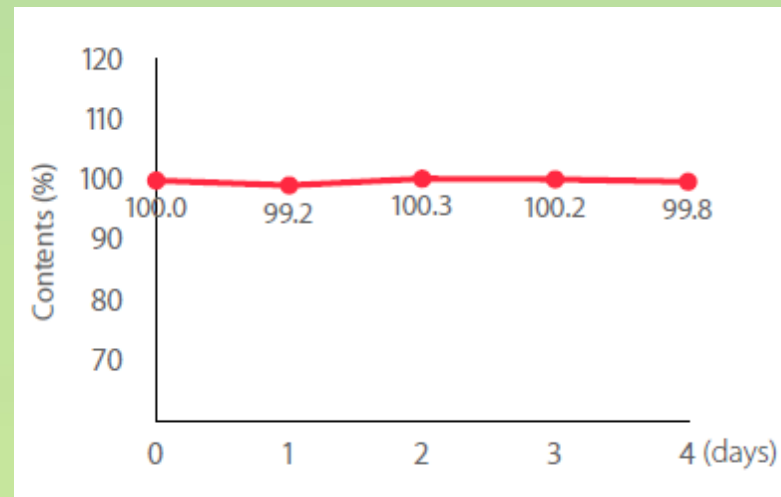
3% Calmskin A7 in water



Light stability

HPLC analysis / 4days

3% Calmskin A7 in water





- INCI
: Dipropylene Glycol (and) Houttuynia Cordata Extract (and) Eclipta Prostrata Extract (and) Polygonum Multiflorum Root Extract (and) Phyllostachys Nigra Leaf Extract (and) Urtica Dioica (Nettle) Extract (and) Passiflora Incarnata Extract (and) Centella Asiatica Extract
- Physical Form : Water soluble transparent yellow liquid
- Recommended Dosage : 1.0 ~ 3.0%
- Benefits & Uses
 - Natural skin soothing medicinal herb extract
 - Proven effect for the inducer of atopic dermatitis, eczema, psoriasis and itching skin
- Applications : Skin, Body and Sun care