



WK Pep[®] Anti-acne peptide



WKPep[®]Anti-acne peptide, known as host defense peptides or antimicrobial peptides, is a class of small molecule peptide found in nature. It is a safe and mild antibiotic substitute working for improving acne, pustules and acne care for hormone-dependent dermatitis. The ability of anti-ance and anti-inflammation were addressed by inhibiting Propionibacterium. acnes and Staphylococcus aureus that both play an important role in the development of acne.

PRODUCT DESCRIPTION

INCI Name	Myristoyl Hexapeptide-5, Water, Glycerin
CAS Number	n/a, 7732-18-5, 56-81-5
Appearance	Transparent solution, colorless to yellowish
Peptide content	≥900 ppm
PH	4.0~6.0
Recommended dosage	3-10%
Compatibility	(1) Avoid the use of compounds containing aldehyde and ketones, metal ions, strong acids, strong bases, active enzymes. (2) Incompatible with polysaccharide, xanthan gum, and hyaluronic acid.

EFFICACY TEST

In vitro test

- MIC value for *Propionibacterium acnes* & *Staphylococcus aureus*

Test protocol

- Different concentration gradients were set to detect the inhibitory effect on *Propionibacterium acnes* & *Staphylococcus aureus*.
- Positive control: bacterial solution; Negative control: WKPep[®] Anti-acne peptide

Test result : +: bacterial growth, -: bacterial inhibition									
Testing concentration	positive control	negative control	1:2	1:4	1:8	1:16	1:32	1:64	1:128
Bacteria									
<i>Propionibacterium acnes</i> (ATCC 11827)	+	-	-	-	-	-	-	+	+
Result	The mini. inhibitory concentration of <i>P. acnes</i> (ATCC 11827) to the sample was 1:32.								

Test result : +: bacterial growth, -: bacterial inhibition									
Testing concentration	positive control	negative control	1:2	1:4	1:8	1:16	1:32	1:64	1:128
Bacteria									
<i>Staphylococcus aureus</i> (ATCC 6538)	+	-	-	-	-	-	-	+	+
Result	The mini. inhibitory concentration of <i>S. aureus</i> (ATCC 6538) to the sample was 1:32.								

The mini. inhibitory concentration for WKPep[®]Anti-acne peptide against *P. acnes* & *S. aureus* is 31 ppm (1000ppm/32).

***P. acnes* & *S. aureus* are sensitive to WKPep[®] Anti-acne peptide, which has a good inhibitory effect on its growth.**

In vivo test

Test protocol

- Volunteer, age 30+, female.
- An anti-acne gel with 10% WKPep® Anti-acne peptide was applied in the area with acne, comparison pictures before and after 4 hours below.



Test protocol

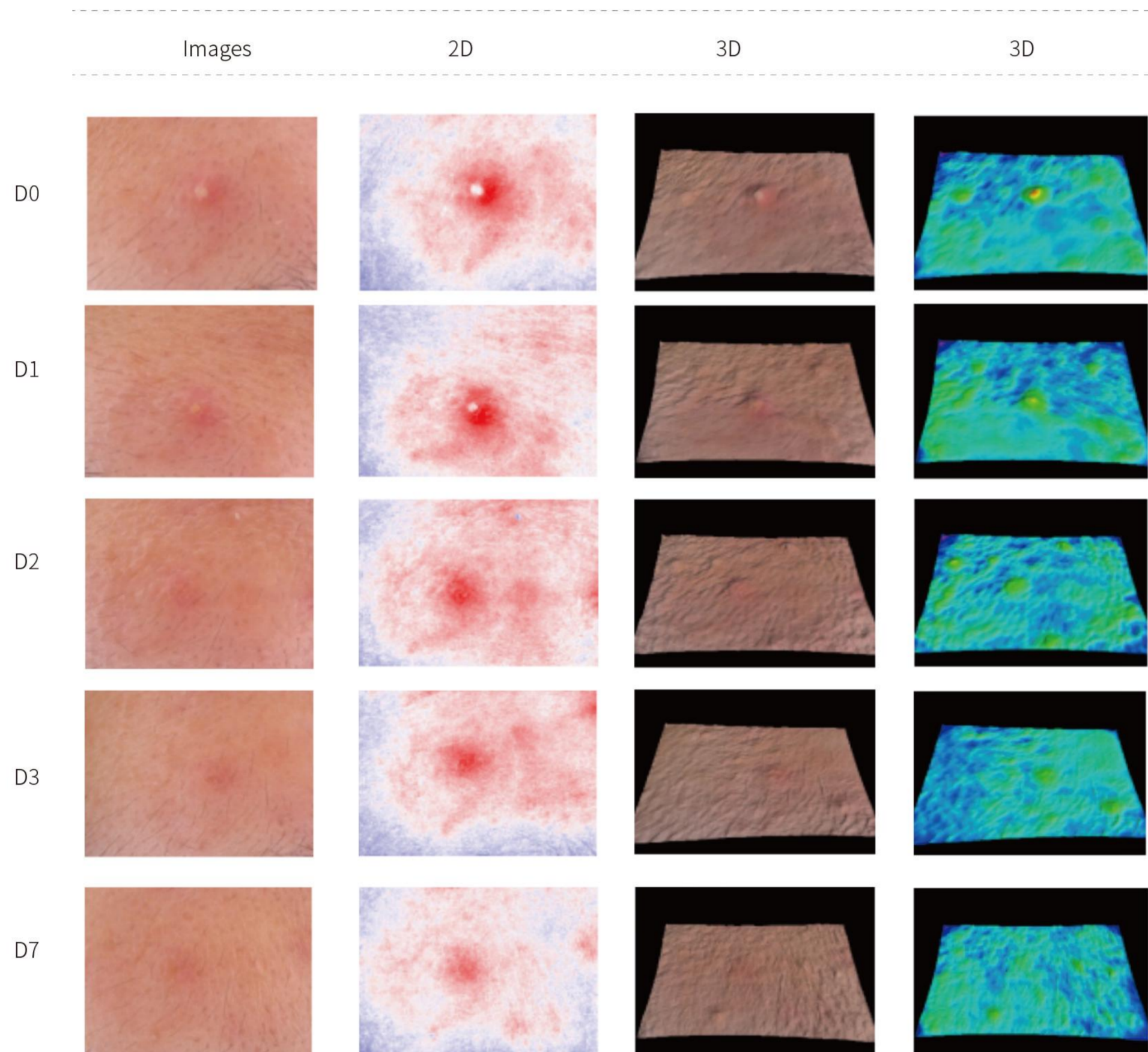
- Volunteer, age 20+, male.
- An anti-acne gel with 10% WKPep® Anti-acne peptide was applied in the area with acne for 36h.



Anti-acne & Acne spot-removing & Skin repairing

Test protocol

- Volunteers, aged between 20-40, gender was random.
- An anti-acne gel with 3%WKPep®Calmin, 10%WKPep®Anti-acne peptide, 5%WPep®Descarin was applied in the area with acne, twice-daily in the morning and evening after facial cleansing 7 days, during the test period, similar cosmetics were stopped.



The height and volume of acne were effectively reduced and the acne scar was repaired. On the third day, the pustules were disappeared, inflammation was improved and the area of skin lesions were decreased.

Anti-acne gel effectively reduces the area and height of acne, relieves redness and inflammation, prevents the formation of acne marks and repair the skin.



Contact us

Email: sales@winkey-china.com

Add: Room315-317, No.8 Qide Road, Baiyun District, Guangzhou, China

Webiste: www.winkey-china.com