

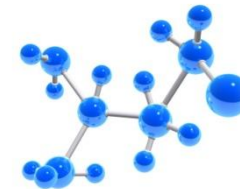
# ARGAN Co.

Phone: 818.709.7070 Fax :818.709.7171 Email:  
[info@arganco.com](mailto:info@arganco.com)



**Cosmetic and Personal  
Care Ingredients and  
Specialties**

# ARGAN Co.



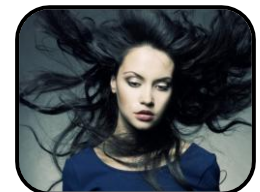
## ARGAN BEAUTY PEPTIDES



# ARGAN Co.

Argan Co. is a highly versatile supplier of personal care and cosmetic **solutions** for all your formulation needs.

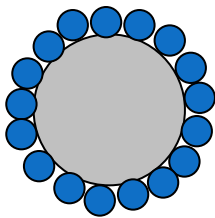
In addition to its extensive array of cosmetic ingredients, Argan provides customization of raw materials, scale up and pilot production pilot services, formulation assistance and ready to use products.



## CAPABILITIES

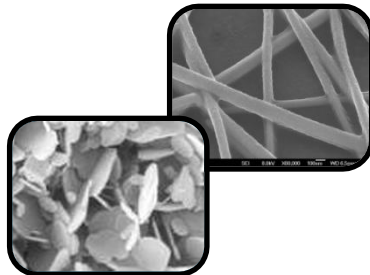
### Manufacturing Technologies

- Emulsion (Dispersion)
- Polymerization
- Sol-Gel Technology
- Hybridization
- Particle Coating



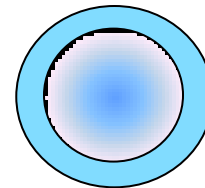
### Lab & Pilot Scale Technologies

- Particle Synthesis
- Formulation
- Technical Assistance



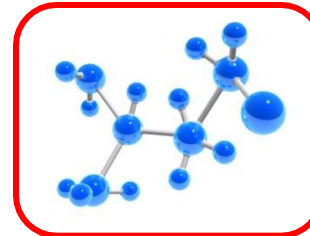
### Cosmetic Powder Technologies

- Spherical
- Mineral based
- Surface modified
- Effects Pigments
- Colorants
- Treated
- Functional



### Beauty Peptide Powders & Liquids for:

- **Anti-Aging**
- **Under Eye Treatment**
- **Skin Whitening/Brightening**



### Antiaging

#### Powders

AR-8220	Acetyl Hexapeptide-3/8
AR-8222	Copper Peptide(GHK-Cu)
AR-8223	Palmitoyl Tripeptide-1 (Pal-GHK)
AR-8224	Palmitoyl Tetrapeptide-3/7(Pal-GQPR)
AR-8225	Palmitoyl Pentapeptide-3/4(Pal-KTTKS)
AR-8228	Palmitoyl Oligopeptide(Pal-VGVAPG)
AR-8232	Acetyl Pentapeptide-1
AR-8234	Acetyl Octapeptide-1/3
AR-8236	Palmitoyl Tripeptide-3/5(Pal-KVK)
AR-1602	Epidermal Growth Factor(EGF)

- ◇ Packing: 1g,10g,50g,100g/plastic bottle.
- ◇ Storage: 2-8°C ,dry place,protect from light.
- ◇ Shelf life: 2years.



### Antiaging- Powders

Acetyl Hexapeptide-3/8	AR-8220
INCI Name	Acetyl Hexapeptide-8
CAS Number	616204-22-9
Amino Sequence	Ac-Glu-Glu-Met-Gln-Arg-NH <sub>2</sub>
Functions	<ul style="list-style-type: none"> <li>• Inhibits SNARE complex formation and catecholamine release</li> <li>• Reduces the depth of wrinkles and fine lines</li> <li>• It is a safer, cheaper and milder alternative to Botulinum Toxin; topically targeting the same wrinkle-formation mechanism in a very different way</li> </ul>
Appearance	White powder
Identity by MS	889.0±1.0
Water Content (Karl Fischer)	Not more than 8.0%
Peptide Content	Not less than 80.0%
Purity(HPLC)	Not less than 95.0%
Amino Acid Composition	±10% of theoretical
Application in Cosmetics	Anti-wrinkle , skin moisturizer
Dosage	0.015-0.05%

### Antiaging- Powders

<b>Copper Peptide(GHK-Cu)</b>	<b>AR-8222</b>
INCI Name	Copper Peptide (GHK-Cu)
CAS Number	49557-75-7
Amino sequence	Ac-Glu-Glu-Met-Gln-Arg-NH <sub>2</sub>
Functions	<ul style="list-style-type: none"> <li>•Promotes more regular collagen synthesis</li> <li>•Improves production of elastin, proteoglycans, glycosaminoglycans</li> <li>•Modulates anti-inflammatory and antioxidant responses</li> </ul>
Appearance	Blue powder
Molecular Ion Mass	742.29 ± 1.0
Purity (HPLC) (GHK)	Not less than 95.0 %
Water Content (Karl Fischer)	Not more than 8.0 %
Acetic Acid (HPLC)	< 15%
Application in Cosmetics	For wound healing and anti-aging, hair growth treatment
Dosage	0.05-0.2%



### Antiaging- Powders

<b>Palmityl Tripeptide-1 (PAL-GHK)</b>	<b>AR-8223</b>
INCI Name	Palmityl Tripeptide-1
CAS No.	147732-56-7
Amino Sequence	Pal-Gly-His-Lys-OH
Functions	<ul style="list-style-type: none"><li>• Stimulates collagen and glycosaminoglycans synthesis</li><li>• Decreases in wrinkle length and depth</li><li>• Softens skin, reducing dryness/roughness</li></ul>
Appearance	White powder
Molecular Ion Mass	578.8±1
Purity (HPLC) (GHK)	Not more than 7.0%
Water Content (Karl Fischer)	Not less than 80.0%
Acetic Acid (HPLC)	Not less than 95.0%
Amino Acid Composition	±10% of theoretical
Application in Cosmetics	Anti-aging, anti-wrinkle, firming, skin moisturizer
Dosage	0.01-0.05%

### Antiaging- Powders

<b>Palmitoyl Tetrapeptide-3/7 (PAL-GQPR)</b>	<b>AR-8224</b>
INCI Name	Palmitoyl Tetrapeptide-7
CAS Number	221227-05-0
Amino Sequence	Pal-Gly-Gln-Pro-Arg-OH
Functions	<ul style="list-style-type: none"> <li>• Decrease IL-6 secretion by keratinocytes in a basal setting and after exposure to UVB irradiation, anti-inflammation</li> <li>• Counteracts skin sagging; increase skin firmness, especially the fragile skin in the area around the eyes</li> <li>• It decreases imitation that could lead to puffiness.</li> </ul>
Appearance	White powder
Molecular Ion Mass	694.8±1
Purity (HPLC) (GHK)	≥98.0%
Water Content (Karl Fischer)	< 2.0%
Amino Acid Composition	≤8.0%
Bacterial Endotoxins	±10% of theoretical
Application in Cosmetics	Products for wrinkle prevention and repair, eye contour care, mature skin range of products.
Dosage	0.01-0.05%

### Antiaging- Powders

Palmitoyl Pentapeptide-3/4 (Pal-KTTKS)	AR-8225
INCI Name	Palmitoyl Pentapeptide-4
CAS Number	214047-00-4
Amino Sequence	Pal-Lys-Thr-Thr-Lys-Ser
Functions	<ul style="list-style-type: none"> <li>• Lipophilic modified peptide originally developed by based on wound healing research and currently being investigated as an anti-aging ingredient</li> <li>• Stimulates collagen I, III and VI fibronectin, elastin, glucosaminoglycan production</li> <li>• Helps to prevent fine lines induced by repeated facial movements</li> <li>• Improves collagen and elastin matrix</li> <li>• Prevents premature aging with visible results within two weeks</li> </ul>
Appearance	White powder
Identity by MS	802±1
Solubility	Soluble in fat
Peptide Purity(HPLC)	Not less than 95.0%
Related Substance(HPLC)	Total impurities ≤5.0%, Largest single ≤2.0%
Amino Acid Analysis	±10% of theoretical
Water Content (Karl Fischer)	≤5.00%
Application in Cosmetics	Anti-aging, anti-wrinkle in skin care and eye care products
Dosage	0.03-0.08%

### Antiaging- Powders

Palmitoyl Oligopeptide (Pal-VGVAPG)	AR-8228
INCI Name	Palmitoyl Oligopeptide
CAS No.	171263-26-6
Amino sequence	Pal-Val-Gly-Val-Ala-Pro-Gly-OH
Functions	<ul style="list-style-type: none"> <li>• Promotes synthesis of collagen elastin and hyaluronic acid</li> <li>• Improves hydration</li> <li>• Increase the thickness of the dermis</li> <li>• The main effect is to increase the elasticity of skin</li> <li>• Stimulates cell communication and then repairs the age related skin damage</li> <li>• Shows remarkable effects on anti-aging, wrinkle smoothing and cutaneous barrier repair</li> </ul>
Appearance	White to off-white powder
Molecular Ion Mass	36.98±1
Purity (HPLC)	≥95.0%
Related Substances(HPLC)	Total impurities: < 5.0% Single impurity: < 2.0%
Acetic Acid (HPLC)	≤10.0%
Water Content (Karl Fischer)	≤8.0%
Application in Cosmetics	Anti-aging, anti-wrinkle treatment
Dosage	0.01-0.05%

### Antiaging- Powders

Acetyl Pentapeptide-1	AR-8232
INCI Name	Acetyl Pentapeptide-1
Amino Sequence	AC-Arg-Lys-Asp-Val-Tyr-OH
Functions	<ul style="list-style-type: none"> <li>➤ Improves collagen and elastin synthesis to firm and plump skin</li> <li>➤ Reduces Wrinkles</li> <li>➤ Restores elasticity</li> </ul>
Appearance	White powder or off-white powder
Molecular Ion Mass	721.0±1
Purity (HPLC)	Not less than 98.0 %
Water Content (Karl Fischer)	Not more than 10.0 %
Acetic Acid (HPLC)	< 15%
Related Substances(HPLC)	Total impurities : <2.0%, Single impurity : <1.0%
Peptide Content	NLT 80%
Application in Cosmetics	Anti-aging, anti-wrinkle treatment.
Dosage	0.05-0.1%

### Antiaging- Powders

Acetyl Octapeptide-1/3	AR-8234
INCI Name	Acetyl Octapeptide-3
CAS Number	868844-74-0
Amino Sequence	Acetyl-Glu-Glu-Met-Gln-Arg-Arg-Ala-Asp-NH <sub>2</sub>
Functions	<ul style="list-style-type: none"> <li>• Reduces wrinkles caused by the contraction of muscles of facial expression, decreasing neuronal excitability by SNARE complex destabilisation</li> <li>• Anti-aging minimizing deep lines / wrinkles in the forehead and around the eye area</li> <li>• Safer, less expensive, non-invasive alternative to Botulinum Toxin; targets the same wrinkle-formation mechanism in a very different way</li> </ul>
Appearance	White powder
Purity	≥98.0%
Molecular Ion Mass	1075.2±1
Acetic Acid (HPLC)	<15.0 %
Water Content (Karl Fischer)	≤8.0 %
Related Substances(HPLC)	Total impurities: <2.0%
Application in Cosmetic	Anti-aging, anti-wrinkle treatment
Dosage	0.01-0.05%

### Antiaging- Powders

<b>Palmitoyl Tripeptide-3/5 (Pal-KVK)</b>	<b>AR-8236</b>
INCI Name	Palmitoyl Tripeptide-5
CAS Number	623172-56-5
Amino Sequence	Pal-Lys-Val-Lys-OH
Functions	<ul style="list-style-type: none"> <li>• Small tripeptide which mimics thrombospondin I tripeptide sequence, thus promoting collagen formation.</li> <li>• Cell transduction component; through the stimulation of TGF-Beta increased collagen production, stimulates the production of collagen to help address extracellular matrix damage and inhibit inflammation</li> </ul>
Appearance	White lyophilized powder
Identity by MS	611.9±1
Water Content (Karl Fischer)	Not more than 7.0%
Purity (HPLC)	Not less than 95.0%
Amino Acid Composition	±10% of theoretical
Application in Cosmetics	Anti-aging, anti-wrinkle treatment
Dosage	0.01-0.05%

### Antiaging- Powders

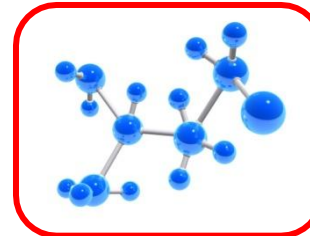
Epidermal Growth Factor (EGF)	AR-1602
INCI Name	rh-Oligopeptide-1
CAS Number	62253-63-8
Amino Sequence	Pal-Lys-Val-Lys-OH
Functions	<ul style="list-style-type: none"> <li>• Anti-wrinkle/Reduces fine lines</li> <li>• Improves cellular activity and turnover to provide a more youthful appearance</li> <li>• Smoothing</li> <li>• Improves complexion.</li> <li>• Conditioning. Nourishing</li> <li>• Reduces dark spots/hyperpigmentation</li> </ul>
Appearance	White frozen dry mass
Molecular Weight	6200 Dalton (SDS-PAGE)
Purity	Not less than 95%
Activity Unit	More than 5*10 <sup>5</sup> IU/mg
Solubility	Added into 1ml distilled water, it can solve quickly
Application in Cosmetics	Skin repair and protection Cream, lotion, gel products for wrinkle prevention
Dosage	1-100ppm



### Antiaging

#### Liquids

AR-8226	AR-3000 (PalmitoylTripeptide-1 (Pal-GHK) & PalmitoylTetrapeptide-3/7 (Pal-GQPR)
AR-8227	ARG-Ped™ AR-AP1 (Acetyl Pentapeptide-1)
AR-8230	ARG-Ped™ AR-AH3 (Acetyl Hexapeptide-3)
AR-8233	ARG-Ped™ AR-PP3 (Palmitoyl Pentapeptide-3/4 (Pal-KTTKS)
AR-8235	ARG-Ped™ AR-AO1 (Acetyl Octapeptide-1/3)
AR-8237	ARG-Ped™ AR-PT5 (Palmitoyl Tripeptide-3/5)
AR-8240	ARG-Ped™ SKE



### Antiaging- Liquids

AR-3000	AR-8226
INCI Name	Water, Glycerin, Butylene Glycol, Carbomer, Polysorbate 20, palmitoyl tripeptide-1, Palmitoyl Tetrapeptide-7, Phenoxyethanol, Ethylhexyl glycerin
CAS Numbers	7732-18-5, 56-81-5, 107-88-0, 9003-01-4, 9005-64-5, 122-99-6, 70445-33-9
Activity Peptide	100 ppm Palmitoyl tripeptide-1 (Pal-GHK) & 50 ppm Palmitoyl Tetrapeptide-3/7 (Pal-GQPR)
Functions	<ul style="list-style-type: none"> <li>• Gene activation to remodeling protein</li> <li>• The two peptides show perfect synergistic reaction on promoting to composing Collagen I, Fibrinogen and hyaluronic acid</li> <li>• Multiple effects on anti-aging &amp; wrinkle reduction</li> </ul>
Appearance	Opalescent Gel
Odor	Characteristic
pH	4.0-6.0
Water Content	20-30%
Pal-GHK	Not less than 0.01%
Pal-GQPR	Not less than 0.005%
Heavy Metals (Pb)	Not more than 10 ppm
Arsenic (as As <sub>2</sub> O <sub>3</sub> )	Not more than 2 ppm
Aerobic Plate Count	Max 100 cfu/g
Application in Cosmetics	Anti-aging for eye care, face, neck and hand care products
Dosage	3.0-10.0% (Add during last step at temperature below 40°C )

### Antiaging- Liquids

ARG-Ped™ AR-AP1	AR-8227
INCI Name	Aqua, Acetyl Pentapeptide-1, Phenoxyethanol, Ethylhexyl glycerin
CAS Numbers	7732-18-5, --, 122-99-6, 70445-33-9
Activity Peptide	500 ppm or 1000 ppm Acetyl Pentapeptide-1
Functions	<ul style="list-style-type: none"> <li>• Soluble in water; Easily absorbed by skin and filter into stratum corneum</li> <li>• Improves collagen production/protein and elastin protein synthesis</li> <li>• Reduces wrinkles</li> <li>• Helps restore skin thickness/firmness</li> <li>• Improves activity of moisture ingredients to maximize skin plumping</li> </ul>
Appearance	Clear solution
Odor	Characteristic
Peptide Content	≥0.05%
Preservatives	Phenoxyethanol & Ethylhexylglycerin : ≤0.5%
Heavy Metals (as Pb)	≤ 10 ppm
Arsenic (as As2O3)	≤ 2 ppm
Aerobic Plate	≤ 100 cfu/g
Application in Cosmetics	Anti-aging for eye care, face, neck and hand care products, body care
Dosage	1.0-10.0% (Add during last step at temperature below 40°C )

### Antiaging- Liquids

ARG-Ped™ AR-AH3	AR-8230
INCI Name	Aqua, Acetyl Hexapeptide-3, Phenoxyethanol, Ethylhexyl glycerin
CAS Numbers	7732-18-5, 616204-22-9, 122-99-6, 70445-33-9
Activity Peptide	500 ppm, 1000 ppm, 10000 ppm, 50000 ppm Acetyl Hexapeptide-3
Functions	<ul style="list-style-type: none"> <li>• Reduces the depth of wrinkles on the face</li> <li>• Improves skin's firmness and tone</li> </ul>
Appearance	Clear solution
Odor	Characteristic
Peptide Content	Not less than 1%
Preservatives	Phenoxyethanol & Ethylhexylglycerin : ≤0.5%
Heavy Metals (as Pb)	≤ 10 ppm
Arsenic (as As <sub>2</sub> O <sub>3</sub> )	≤ 2 ppm
Aerobic Plate	≤100 cfu/g
Application in Cosmetics	Anti-aging, Anti-wrinkle, Skin Moisturizing Products
Dosage	1.0-10.0% (Add during last step at temperature below 40°C )

### Antiaging- Liquids

ARG-Ped™AR-PP3	AR-8233
INCI Name	Aqua, Glycerin, Butylene Glycol, Carbomer, Polysorbate 20, Palmitate Pentapeptide-4, Phenoxyethanol ,Ethylhexylglycerin
CAS Numbers	7732-18-5, 56-81-5, 107-88-0, 9003-01-4, 9005-64-5, 214047-00-4, 122-99-6, 70445-33-9
Activity Peptide	100 ppm Palmitoyl Pentapeptide-3/4 (Pal-KTTKS)
Functions	<ul style="list-style-type: none"> <li>• Reduces the appearance of wrinkles; minimizing and softening fine lines</li> <li>• Produced a significant benefit to lines and wrinkles around eyes</li> <li>• Reduces intensity of muscle contraction</li> </ul>
Appearance	Opalescent Gel
Odor	Characteristic
pH	4.0-6.0
Water Content	20-30%
Peptide Content	Not less than 0.01%
Preservatives	Phenoxyethanol & Ethylhexylglycerin : ≤0.5%
Heavy Metals (as Pb)	Not more than 10 ppm
Arsenic (as AS2O3)	Not more than 2 ppm
Aerobic Plate	Max 100 cfu/g
Application in Cosmetics	Anti-aging, anti-wrinkle in skin care and eye care products
Dosage	3.0-8.0% (Add during last step at temperature below 40°C )

### Antiaging- Liquids

ARG-Ped™AR-AO1	AR-8235
INCI Name	Aqua, Acetyl Octapeptide-3, Phenoxyethanol, Ethylhexylglycerin
CAS Numbers	7732-18-5, 868844-74-0, 122-99-6, 70445-33-9
Activity Peptide	500 ppm Acetyl Octapeptide-1/3
Functions	<ul style="list-style-type: none"> <li>• Anti-aging minimizing deep lines / wrinkles in the forehead and around the eye area</li> <li>• Safer, less expensive, non-invasive alternative to Botulinum Toxin; targets the same wrinkle-formation mechanism in a very different way</li> </ul>
Appearance	Clear solution
Odor	Characteristic
Peptide Content	Not less than 0.05%
Preservatives	Phenoxyethanol & Ethylhexylglycerin : ≤0.5%
Heavy Metals (as Pb)	Not more than 10ppm
Arsenic (as As <sub>2</sub> O <sub>3</sub> )	Not more than 2ppm
Aerobic Plate	Max 100 cfu/g
Application in Cosmetics	Anti-aging, cosmetic formulations such as emulsions, gels, serum, etc., where removal of the deep lines or wrinkles is desired
Dosage	2.0-10.0% (Add during last step at temperature below 40°C )

### Antiaging- Liquids

ARG-Ped™AR-PT5	AR-8237
INCI Name	Aqua, Glycerin, Palmitoyl Tripeptide-5, Phenoxyethanol, Ethylhexylglycerin
CAS Numbers	7732-18-5, 56-81-5, 623172-56-5, 122-99-6, 70445-33-9
Activity Peptide	1000 ppm Palmitoyl Tripeptide-3/5
Functions	<ul style="list-style-type: none"> <li>• Stimulates collagen synthesis to actively reduce the appearance of any type of age related wrinkles. In addition it has skin-firming and moisturizing properties</li> <li>• Protects collagen from degradation</li> <li>• Is a water solution base on glycerin</li> <li>• Clinically proven to be safe and effective</li> </ul>
Appearance	Clear to slightly opaque viscous liquid
Color	Colorless to yellowish
Relative Density	1.150 ~ 1.220
Refractive Index	1.410 ~ 1.450
Peptide Content	Not less than 1000ppm
Preservatives	Phenoxyethanol & Ethylhexylglycerin : ≤0.3%
Aerobic Plate	Max 100 cfu/g
Application in Cosmetics	Used in any type of anti-aging product
Dosage	1.0-3.0% (Add during last step at temperature below 50°C )

### Antiaging- Liquids

ARG-Ped™SKE	AR-8240
INCI Name	Dipeptide diaminobutyroyl Benzylamide diacetate, Aqua, Glycerin, Phenoxyethanol, Ethylhexylglycerin
CAS Numbers	823202-99-9, 7732-18-5, 56-81-5, 122-99-6, 70445-33-9
Activity Peptide	2000-3000 ppm Dipeptide diaminobutyroyl Benzylamide diacetate
Functions	<ul style="list-style-type: none"> <li>•Anti-aging; particularly applicable to eliminate expression lines</li> <li>•Smoothing wrinkles after one month</li> <li>• Helps relax facial muscles, while not affecting the various facial expressions</li> <li>•Keeps skin looking fresh, smooth and revitalized</li> </ul>
Peptide Content	2000-3000 ppm
Appearance	Colorless to pale yellow viscous liquid
Relative Density d20/20	1.150-1.220
Refractive Index n25	1.410-1.450
Total bacterial Count	< 100 cfu/ml
Application in Cosmetics	Skin care for instant wrinkle reduction: Eliminate expression lines, Resist signs of aging, Under eye products, Face, neck, hand care products
Dosage	1.0-5.0% (Add during last step at temperature below 50°C )



### Under Eye Treatment

#### Powders

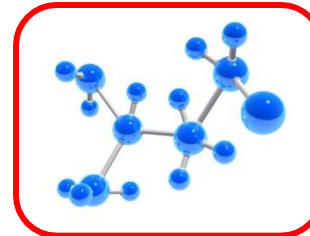
AR-8231

Acetyl Tetrapeptide-5

#### Liquids

AR-8229

ARG-Ped™ AR-AT5 (Acetyl Tetrapeptide -5)



### Under Eye Treatment

<b>Acetyl Tetrapeptide-5</b>	<b>AR-8231</b>
INCI Name	Acetyl Tetrapeptide-5
CAS Number	820959-17-9
Amino Sequence	Ac-Beta-Ala-His-Ser-His-OH
Functions	<ul style="list-style-type: none"> <li>• Reduces eye puffiness</li> <li>• Fights water retention</li> <li>• Enhances skin elasticity and smoothness</li> </ul>
Appearance	White powder or off-white powder
Molecular Ion Mass	492.49 ± 1.0
Purity (HPLC)	Not less than 98.0 %
Water Content (Karl Fischer)	Not more than 10.0 %
Acetic Acid (HPLC)	< 15%
Related Substances (HPLC)	Total impurities : <2.0%, Single impurity : <1.0%
Application in Cosmetics	Used in eye restore ,an-aging products, face, neck and hand care products
Dosage	0.01-0.1%

### Under Eye Treatment

ARG-Ped™ AR-AT5	AR-8229
INCI Name	Aqua, Acetyl Tetrapeptide-5, Phenoxyethanol, Ethylhexylglycerin
CAS Numbers	7732-18-5, 820959-17-9, 122-99-6, 70445-33-9
Activity Peptide	1000 ppm Acetyl Tetrapeptide -5
Functions	<ul style="list-style-type: none"> <li>• Can reduce edema and Erase under eye “bags” quickly in 15 days</li> <li>• Helps eliminate puffiness and swelling under eyes</li> <li>• Promotes skin elasticity and smoothness</li> </ul>
Appearance	Clear solution
Odor	Characteristic
Peptide Content	≥0.1%
Preservatives	Phenoxyethanol & Ethylhexylglycerin : 0.5%
Heavy Metals (as Pb)	Not more than 10 ppm
Arsenic (as As2O3)	≤ 2 ppm
Aerobic Plate	≤ 100 cfu/g
Application in Cosmetics	Used in eye restore, anti-aging products, face, neck and hand care products
Dosage	3.0-10.0% (Add during last step at temperature below 40°C )

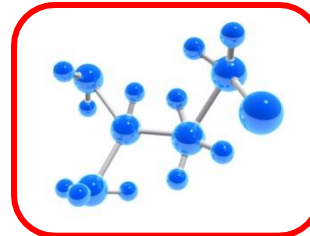
### Skin Whitening/Brightening

#### Powders

AR-8241	Tetrapeptide-30
AR-8243	Nonapeptide-1

#### Liquids

AR-2311	ARG-Ped™ Whiten-1
AR-2312	ARG-Ped™ Whiten-2



### Skin Whitening/Brightening

<b>Tetrapeptide-30</b>	<b>AR-8241</b>
INCI Name	Tetrapeptide-30
Amino Sequence	Pro-Lys-Glu-Lys-NH <sub>2</sub>
Functions	<ul style="list-style-type: none"> <li>• An anti-inflammatory activity</li> <li>• Prevents melanin synthesis; prevents activation of the tyrosinase</li> <li>• Suitable for various kinds of whitening or spot corrective products</li> </ul>
Appearance	White to off-white powder
Molecular Ion Mass	499±1
Purity (HPLC)	≥ 95.0%
Single Impurity (HPLC)	< 3.0%
Trifluoroacetic Acid (HPLC)	≤ 15.0%
Water Content (Karl Fishher)	≤10.0 %
Application in Cosmetic	Lightening cream/Skin tone equalizer cream, Aging spot corrective cream, Skin Illumination-Brilliance (foundation-powder)
Dosage	0.0008-0.008%.

### Skin Whitening/Brightening

<b>Nonapeptide-1</b>	<b>AR-8243</b>
INCI Name	Nonapeptide-1
Amino Sequence	Met-Pro-D-Phe-Arg-D-Trp-Phe-Lys-Pro-Val-NHRR2
Functions	<ul style="list-style-type: none"> <li>• Reduces hyperpigmentation allowing for a better control over skin tone</li> <li>• Prevent melanin synthesis; prevents activation of the tyrosinase</li> <li>• Can be applied to various kinds of whitening or spot corrective products</li> </ul>
Appearance	White to off-white powder
Molecular Ion Mass	1206.62±1
Purity (HPLC)	≥ 95.0%
Single Impurity (HPLC)	< 3.0%
Acetic Acid (HPLC)	≤ 15.0%
Water Content (Karl Fisher)	≤10.0 %
Application in Cosmetic	Lightening cream/Skin tone equalizer cream, Aging spot corrective cream, Skin Illumination- Brilliance(foundation-power)
Dosage	0.002-0.005%

### Skin Whitening/Brightening

<b>ARG-Ped™ Whiten 1</b>	<b>AR-2311</b>
INCI Name	Aqua, Glycerin, Nonapeptide-1, Phenoxyethanol, Ethylhexylglycerin
CAS Numbers	7732-18-5, 56-81-5, --, 122-99-6, 70445-33-9
Activity Peptide	100 ppm Nonapeptide-1
Functions	<ul style="list-style-type: none"><li>•Prevent the synthesis of melanin</li><li>•Skin brightening and reduction of hyperpigmentation/brown spots</li></ul>
Appearance	Aqueous limpid solution, colorless
Odor	Odorless
Density (g/cm <sup>3</sup> 20°C )	1.00 ~ 1.02
Peptide Content	Not less than 100 ppm
PH	5.0-7.0
Aerobic Plate	Max 100 cfu/g
Application in Cosmetics	Whitening, fading of freckles and skin discolorations
Dosage	2.0-5.0% (Add during last step at temperature below 40°C )

### Skin Whitening/Brightening

ARG-Ped™ Whiten 2	AR-2312
INCI Name	Glycerin, Tetrapeptide-30
CAS Numbers	56-81-5, --
Activity Peptide	1600 ppm Tetrapeptide-30
Functions	<ul style="list-style-type: none"> <li>•Visibly diminishes hyperchromatic spots</li> <li>•Brightens skin and improves the evenness of skin tone</li> <li>•Reduces acne lesions</li> <li>•Alleviates melasma on ethnic skin</li> <li>•Provides a significant anti-inflammatory effect</li> <li>•Preservative-free peptide solution</li> </ul>
Appearance	Clear solution
Odor	Characteristic
Peptide Content	Not less than 1600ppm
Heavy Metals (as Pb)	10ppm
Arsenic (as As <sub>2</sub> O <sub>3</sub> )	Not more than 2ppm
Aerobic Plate	Max 100 cfu/g
Application in Cosmetics	Whitening, fading of freckles and skin discolorations
Dosage	0.5-5.0% (Add during last step at temperature below 40°C )



### Commercial Equivalents and Comparative Products - Powders

No	Code	English name	CAS NO	Similar product	Function
1	SC-1602	sh-oligopeptide-1			Anti-aging
2	SC-8220	Acetyl hexapeptide-3/8	616204-22-9	Argireline (Lipotec)	Anti-aging
3	ARG-8222	Copper peptide(GHK2- Cu)	49557-75-7		Anti-aging
4	ARG-8222-1	Copper peptide(GHK- Cu)	49557-75-7		Anti-aging
5	ARG-8222-2	Copper peptide(AHK- Cu)	49557-75-7		Anti-aging
6	ARG-8222-3	Copper peptide(AHK2- Cu)2	49557-75-7		Anti-aging
7	ARG-8223	Palmitoyl tripeptide-1 (Pal-GHK)	147732-56-7		Anti-aging
8	ARG-8224	Palmitoyl tetrapeptide-7/3 (Pal-GQPR)		Rigin(Sederma)	Anti-aging
9	ARG-8234	Acetyl Octapeptide-1/3		Snap-8(Liptec)	Anti-aging
10	ARG-8225	Palmitoyl pentapeptide-4/3 (Pal-KTTKS)	214047-00-4	Matrixyl (Sederma)	Anti-aging
11	ARG-8228	Palmitoyl Oligopeptide (Pal-VGVAPG)	171263-26-6	Biopeptide EL (Sederma)	Anti-aging
12	ARG-8232	Acetyl Pentapeptide-1			Anti-aging
13	ARG-8236	Palmitoyl Tripeptide-5/3 (PAL-KVK)	623172-56-5	SYN@-COLL(Pentapharm)	Anti-aging
14	ARG-8231	Acetyl Tetrapeptide-5	820959-17-9	Eyeseryl Solution (Lipotec)	Anti-eyebags
15	ARG-8238	Myristoyl Pentapeptide-17		SymPeptide@226EL (Symrise)	Eyelashes
16	ARG-2314	Myristoyl Hexapeptide-16		SymPeptide® 235EL (Symrise)	Eyelashes
17	ARG-2316	Pentapeptide-3/18	64963-01-5	Leuphashl®Peptide (Lipotec)	
18	ARG-2318	Biotinoyl Tripeptide-1			
19	ARG-2320	Palmitoyl Tripeptide-38			
20	ARG-8221	SKE (Powder)	823202-99-9	SYN@-AKE (Pentapharm)	Anti-aging
21	ARG-8241	Tetrapeptide-30		TEGO® Pep4-Evn (Evonik)	Whitening
22	ARG-8242	Hexapeptide-2		Dermostayl (ISP)	Whitening
23	ARG-8243	Nonapeptide-1		MELITAINE (Atrium)	Whitening

## Commercial Equivalents and Comparative Products – Liquids

No	Code	English name	CAS NO	Similar product	Function
1	SC-1603	sh-oligopeptide-1 (liquid)			Anti-aging
2	ARG-8230	0.05%Acetyl hexapeptide-3/8 (liquid)	616204-22-9	Argireline (Lipotec)	Anti-aging
3	ARG-8230-1	0.1%Acetyl hexapeptide-3/8 (liquid)	616204-22-9	Argireline (Lipotec)	Anti-aging
4	ARG-8230-2	0.3%Acetyl hexapeptide-3/8 (liquid)	616204-22-9	Argireline (Lipotec)	Anti-aging
5	ARG-8245	0.1%Copper peptide solution(GHK <sub>2</sub> -Cu)			Anti-aging
6	ARG-8245-1	1.0%Copper peptide solution(GHK <sub>2</sub> -Cu)			Anti-aging
7	ARG-8226	ARG-3000		Matrixyl 3000	Anti-aging
8	ARG-8235	0.05%Acetyl Octapeptide-1		Snap-8(Liptec)	Anti-aging
9	ARG-8233	100ppm Palmitoyl pentapeptide-3/4	214047-00-4	Matrixyl (Sederma)	Anti-aging
10	ARG-8244	120ppm Palmitoyl Oligopeptide	171263-26-6	Biopeptide EL (Sederma)	Anti-aging
	ARG-8227	0.1%Acetyl Pentapeptide-1			Anti-aging
12	ARG-8227-1	0.05%Acetyl Pentapeptide-1			Anti-aging
13	ARG-8237	0.1%Palmitoyl Tripeptide-5	623172-56-5	SYN@-COLL(Pentapharm)	Anti-aging
14	ARG-8229	0.1%Acetyl Tetrapeptide-5	820959-17-9	Eyeseryl Solution (Lipotec)	Anti-eyebags.
15	ARG-8239	0.1%Myristoyl Pentapeptide-17		SymPeptide@226EL (Symrise)	Eyelashes
16	ARG-2315	0.1%Myristoyl Hexapeptide-16		SymPeptide@ 235EL (Symrise)	Eyelashes
17	ARG-2317	0.05% Pentapeptide-3/18	64963-01-5	Leuphashl@Peptide (Lipotec)	
18	ARG-2319	Biotinoyl Tripeptide-1 Solution			
19	ARG-2321	Palmitoyl Tripeptide-38 Solution			
20	ARG-8240	SpecPed™ SKE	823202-99-9	SYN@-AKE (Pentapharm)	Anti-aging
21	ARG-2311	100ppm Nonapeptide-1		MELITAINE (Atrium)	Whitening
22	ARG-2312	1600ppm Tetrapeptide-30		TEGO® Pep4-Evn (Evonik)	Whitening

# ARGAN Co.

# THANK YOU

