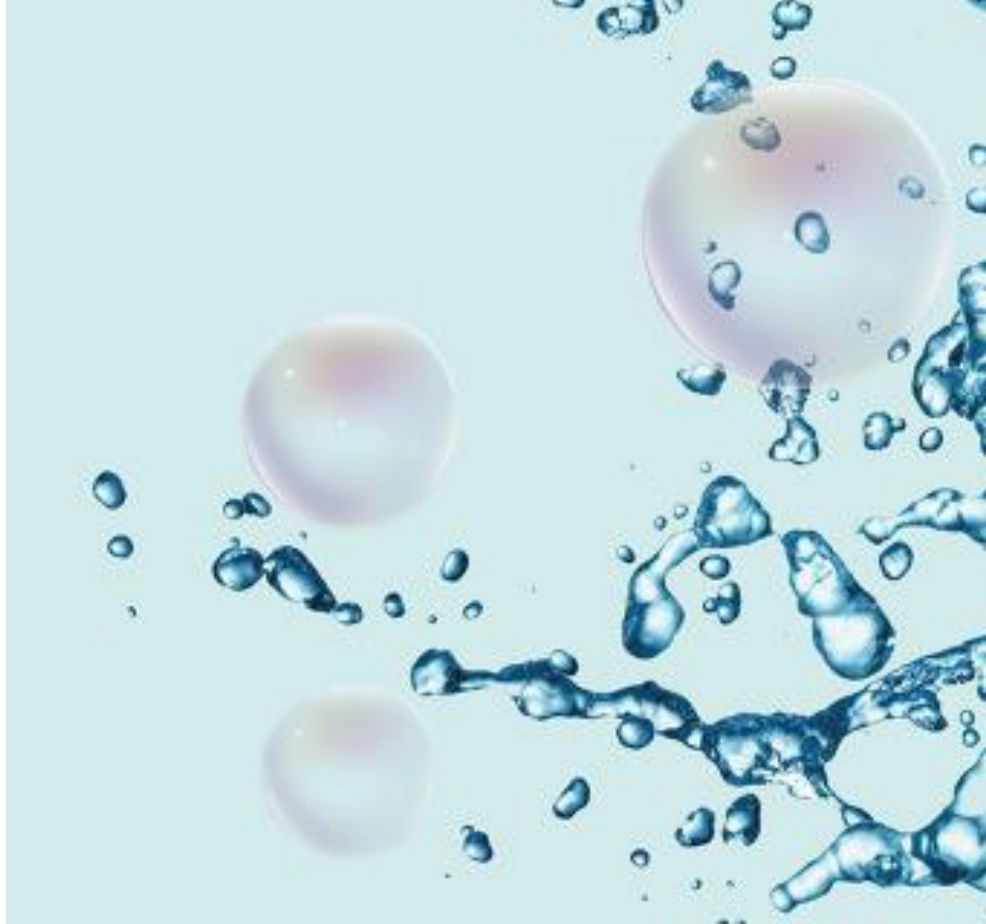




# **NATORI AMINO SOL 0.1(C)HD**



**INCI name**

Glutamine, Leucine, Phenylalanine, Arginine, Lysine HCl, Proline, Aspartic Acid, Valine, Glycine, Isoleucine, Threonine, Histidine, Serine, Alanine, Methionine, Tryptophan, Tyrosine, Cysteine, Taurine and Carnitine, 1,2-Hexanediol, Water

# NATORI AMINO SOL 0.1(C)HD

Contains more than 1000 ppm of 20 different amino acids: Glutamine, Leucine, Phenylalanine, Arginine, Lysine HCl, Proline, Aspartic Acid, Valine, Glycine, Isoleucine, Threonine, Histidine, Serine, Alanine, Methionine, Tryptophan, Tyrosine, Cysteine, Taurine and Carnitine. Amino acids supply nutrients to skin cells and help to activate skin fibroblasts, contributing to maintaining moisturizing power in the skin.



Moisturizing



Nutritious



# What Is The Role of Amino Acids In Our Body?

“Amino acids are the building blocks that make up proteins and have a role in virtually all the biological processes that occur in our bodies.”

*There are **20 amino acids** important for health and can be categorized into*

**(a) Essential amino acids** – not produced by the body and have to be obtained through certain food and supplements.

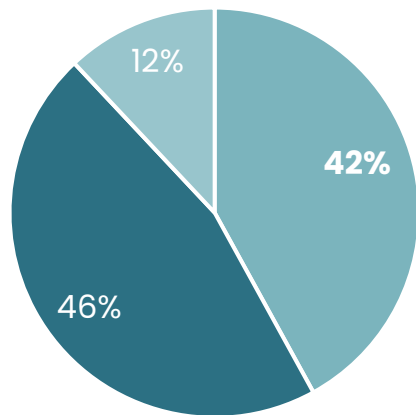
*(histidine, isoleucine, leucine, lysine, methionine, phenylalanine, threonine, tryptophan and valine)*

**(b) Non-essential amino acids** – produced by the body.

*(alanine, arginine, asparagine, aspartic acid, cysteine, glutamic acid, glutamine, glycine, proline, serine and tyrosine)*

# Role of Amino Acids In The Skin

Composition of NMF



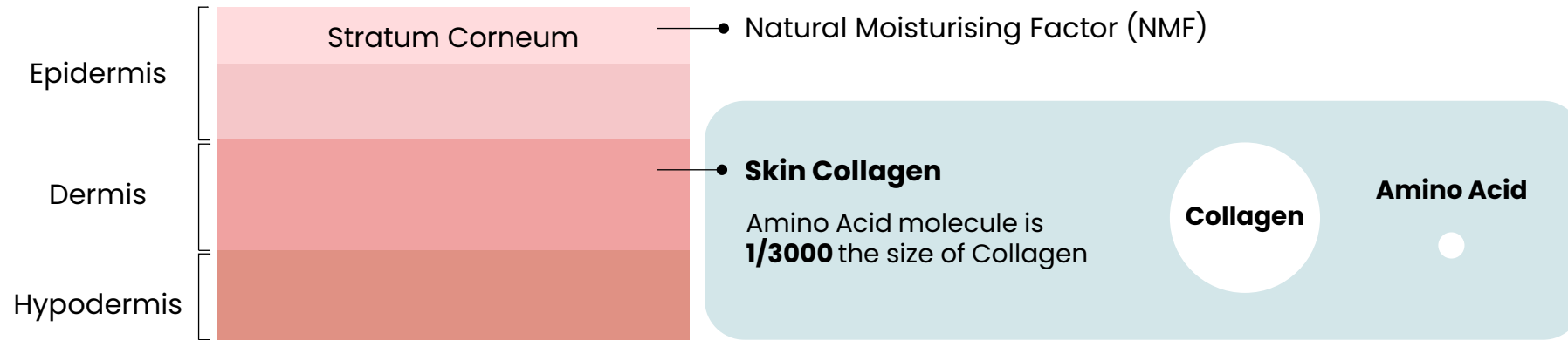
■ Amino Acids ■ Others ■ PCA

~42% of the NMF is amino acids.  
PCA is made from amino acids.



In healthy skin, the stratum corneum is tightly arranged with a **good balance of NMF and epidermal lipids.**

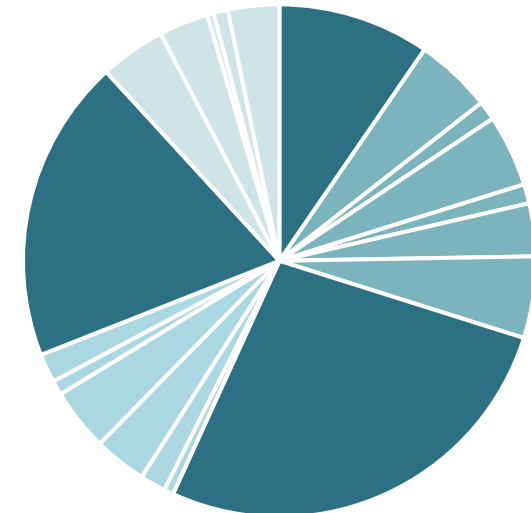
# Role of Amino Acids In The Skin



## Amino Acid Composition of Collagen

Main Amino Acids  
**Glycine**  
**Alanine**  
**Proline**

- Ala   ■ Arg   ■ Asn
- Asp   ■ Cys   ■ Gln
- Glu   ■ Gly   ■ His
- Ise   ■ Leu   ■ Lys
- Met   ■ Phe   ■ Pro
- Ser   ■ Thr   ■ Trp
- Tyr   ■ Val



[https://www.researchgate.net/publication/221855924\\_Analysis\\_of\\_human\\_collagen\\_sequences](https://www.researchgate.net/publication/221855924_Analysis_of_human_collagen_sequences)

# Role of Amino Acids In The Skin

## Metabolism and Functions of Amino Acids in the Skin

F Solano <sup>1</sup>

Affiliations + expand

PMID: 32761577 DOI: [10.1007/978-3-030-45328-2\\_11](https://doi.org/10.1007/978-3-030-45328-2_11)

### Abstract

Amino acids are the building blocks of all proteins, including the most abundant fibrous proteins in the skin, as keratins, collagen and elastin. Sagging and wrinkled skin are features of chronic sun-damaged and aged uncared skin, and they are mainly associated with the deterioration of collagen and elastic fibers. The maintenance of skin structures by self-repair processes is essential to skin health. Thus, amino acids significantly impact the appearance of the skin. Amino acids are important nutrients required for (a) wound healing promotion and repair of the damaged skin; (b) acid-base balance and water retention in cellular layers, such as stratum corneum; (c) protection against sunlight damage; (d) maintenance of an appropriate skin microbiome. This review highlights the contribution of all proteinogenic amino acids and some related metabolites to the skin structures as constituents of the main cutaneous proteins or as signaling molecules for the regulation and determination of skin physiology.

# Composition

INCI NAME	COMPOSITION, %	INCI NAME	COMPOSITION, %
GLUTAMINE	0.11467	PROLINE	0.006727
LEUCINE	0.009867	ASPARTIC ACID	0.006667
PHENYLALANINE	0.008133	VALINE	0.006267
ARGININE	0.007733	GLYCINE	0.0058
LYSINE HCL	0.007733	ISOLEUCINE	0.005733

# Composition

INCI NAME	COMPOSITION, %	INCI NAME	COMPOSITION, %
THREONINE	0.0048	TRYPTOPHAN	0.001933
HISTIDINE	0.0042	TYROSINE	0.001667
SERINE	0.004133	CYSTEINE	0.000467
ALANINE	0.0034	TAURINE	0.0002
METHIONINE	0.003333	CARNITINE	0.000139
1,2-HEXANEDIOL	2.0	WATER	97.899601



# Information on use

## Specifications

<b>Appearance</b>	Colourless to slightly yellow liquid
<b>Odour</b>	Characteristic
<b>Colour</b>	Colourless
<b>pH</b>	4.5 – 7.5
<b>Preservatives</b>	1,2-Hexanediol

## Formulation

<b>Recommended Use Level, %</b>	5.0 – 90.0
<b>Incorporation</b>	Add into aqueous phase at any temperature
<b>Stability</b>	High or low temperatures do not affect its stability.

# AMINO ACID PRODUCTS

# THE ORDINARY

## BUFFET MULTI-TECHNOLOGY PEPTIDE SERUM

### Product Claims:

- A multi-technology peptide serum that combines a comprehensive array of studied technologies to target multiple signs of ageing at once.
- Consists of 11 skin-friendly amino acids.

**Ingredients:** Aqua (Water), Glycerin, Lactococcus Ferment Lysate, Acetyl Hexapeptide-8, Pentapeptide-18, Palmitoyl Tripeptide-1, Palmitoyl Tetrapeptide-7, Palmitoyl Tripeptide-38, Dipeptide Diaminobutyroyl Benzylamide Diacetate, Acetylglycyltryptophyl Diphenylglycine, Sodium Hyaluronate Crosspolymer, Sodium Hyaluronate, Allantoin, **Glycine, Alanine, Serine, Valine, Isoleucine, Proline, Threonine, Histidine, Phenylalanine, Arginine, Aspartic Acid**, Trehalose, Fructose, Glucose, Maltose, Urea, Sodium PCA, PCA, Sodium Lactate, Citric Acid, Hydroxypropyl Cyclodextrin, Sodium Chloride, Sodium Hydroxide, Butylene Glycol, Pentylene Glycol, Acacia Senegal Gum, Xanthan Gum, Carbomer, Polysorbate 20, PPG-26-Buteth-26, PEG-40 Hydrogenated Castor Oil, Trisodium Ethylenediamine Disuccinate, Ethoxydiglycol, Sodium Benzoate, Caprylyl Glycol, Ethylhexylglycerin, Phenoxyethanol, Chlorphenesin.



# DRUNK ELEPHANT

COCOMINO™ GLOSSING SHAMPOO

## Product Claims:

- A sulfate-free, color-safe glossing shampoo formulated with scalp and hair in mind, removing dirt and product buildup without damaging the hair shaft or stripping color.
- Amino acids smooth and strengthen hair, add shine, and give visible body and bounce.



**Ingredients:** Water/Aqua/Eau, Sodium Lauroyl Methyl Isethionate, **Cocamidopropyl Betaine**, Sodium Methyl Oleoyl Taurate, **Sodium Cocoyl Isethionate**, Coconut Alkanes, Sclerocarya Birrea Seed Oil, Argania Spinosa Kernel Oil, Passiflora Edulis Seed Oil, Plukenetia Volubilis Seed Oil, Prunus Amygdalus Dulcis (Sweet Almond) Oil, Rosa Canina Fruit Oil, Glycerin, Sodium PCA, Caprylic/Capric Triglyceride, Helianthus Annuus (Sunflower) Seed Oil, Panthenol, Glycol Distearate, Sodium Lactate, Equisetum Arvense Extract, PCA, **Alanine, Arginine, Glycine, Histidine, Isoleucine, Phenylalnine, Proline, Serine, Threonine, Valine**, Adansonia Digitata Seed Extract, Trisodium Ethylenediamine Disuccinate, Prunus Amygdalus Dulcis (Sweet Almond) Seed Extract, Citric Acid, **Aspartic Acid**, Polyquaternium-10, Polyquaternium-7, Laureth-4, Coco-Caprylate/Caprates, **Caprylyl Glycol**, Sodium Benzoate, Sodium Chloride, Chlorphenesin, Phenoxyethanol

# CLINIQUE

CLINIQUE FOR MEN SUPER ENERGIZER™ ANTI-FATIGUE DEPUFFING EYE GEL

## Product Claims:

- Cooling roll-on gel instantly re-energizes and brightens tired-looking eyes. Absorbs quickly.
- Contains humectants that bind moisture to skin.

**Ingredients:** Water\Aqua\Eau, Butylene Glycol, Glycerin, Caffeine, Polygonum Cuspidatum Root Extract, Citrus Reticulata (Tangerine) Peel Extract, Rosmarinus Officinalis (Rosemary) Leaf Extract, Vitis Vinifera (Grape) Seed Extract, Punica Granatum (Pomegranate) Fruit Juice, Panthenol, Sodium Hyaluronate, Humulus Lupulus (Hops) Extract, Linolenic Acid, Yeast Extract\Faex\Extrait De Levure, Linoleic Acid, **Glycine**, Nordihydroguaiaretic Acid, Hydroxyproline, **Proline**, Acrylates Copolymer, Ethylbisiminomethylguaiacol Manganese Chloride, Carbomer, Caprylyl Glycol, Polyacrylamide, C13-14 Isoparaffin, Hexylene Glycol, Laureth-7, Biosaccharide Gum - 1, Xanthan Gum, Disodium Edta, Phenoxyethanol, Mica, Titanium Dioxide (Ci 77891) <ILN44507>



# DRUNK ELEPHANT

## SWEET BIOME™ FERMENTED SAKE SPRAY

### Product Claims:

- A facial spray that supports and replenishes a healthy microbiome while mimicking the components that keep your acid mantle (aka your skin barrier) strong, soothed, and balanced.

**Ingredients:** Water/Aqua/Eau, Sodium Pca, Propanediol, Galactomyces Ferment Filtrate, Glycerin, Beta Vulgaris (Beet) Root Extract, Fructooligosaccharides, Saccharomyces/Xylinum/Black Tea Ferment, Cocos Nucifera (Coconut) Fruit Juice, Sclerocarya Birrea Seed Oil, Lactic Acid, Pentylene Glycol, Sodium Hyaluronate Crosspolymer, Zinc Gluconate, Sodium Lactate, Magnesium Aspartate, Pca, **Alanine, Arginine, Glycine, Histidine, Isoleucine, Phenylalanine, Proline, Serine, Threonine, Valine, Aspartic Acid**, Calcium Gluconate, Copper Gluconate, Trehalose, Linoleic Acid, Linolenic Acid, Ceramide Ap, Ceramide Eop, Ceramide Np, Phytosphingosine, Cholesterol, Xylitol, Humulus Lupulus (Hops) Extract, Hyaluronic Acid, Sodium Lauroyl Lactylate, Tapioca Starch, Tetrasodium Glutamate Diacetate, Xanthan Gum, Potassium Lactate, Polysorbate 20, Citric Acid, Carbomer, Phenoxyethanol, Sodium Benzoate, Tocopherol, Sodium Hydroxide, Potassium Sorbate, Ethylhexylglycerin.





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