HACP

Collagen Tripeptide Gly - X - Y

A PROVEN FUNCTIONAL FOOD AND HEALTH SUPPLEMENT

JELLICE

Gelatin & Collagen

Since 1941

BRC FOOD CERTIFICATED

JELLICE
GELATIN & COLLAGEN
SINCE 1941

ABOUT US

Jellice Group is one of the top 10 Gelatin manufacturers in the world with headquarters in Sendai, Japan. Established in 1941, Jellice Group has 5 state ofart manufacturing facilities across the globe, producing 15000 tonnes of gelatin annually.

The Jellice Group offers a wide selection of products :

- + **Gelatin** **(Bovine, Fish, Poultry, Porcine)**
- + **Collagen Peptide** **(Fish, Poultry, Bovine, Porcine)**
- + **HACP** **Collagen Tri Peptide**

With capability to manufacture and supply Gelatin and Collagen from different origins, Jellice Group is active in food, pharmaceutical, health and cosmetic industries for a wide range of applications.

JELLICE HACP – COLLAGEN TRIPEPTIDE

Jellice HACP is manufactured by unique enzymatic hydrolyzation of gelatin (Patented Technology – Japan).

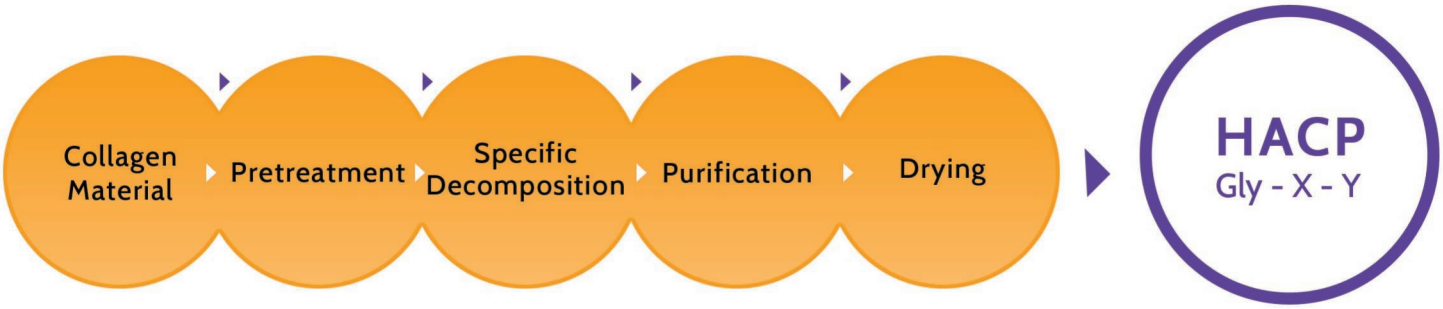
The secret of our HACP is the active ingredient Gly-X-Y (tri-peptide) which is the smallest peptide of Collagen. After the unique hydrolyzation the molecular weight of the active ingredient Gly-X-Y is only 1/1000 of regular Collagen (300 kDa). Due to its small molecular weight it has very high bioavailability. HACP contains more than 90% of protein and the active ingredient is Gly-X-Y (tri-peptide) is more than 15% and is not found in other collagens. The absorption rate is 4-5 times more than other conventional Collagen Peptides.
Jellice HACP finds application in segments like Healthcare and Beauty products.

JELLICE HACP – CHARACTERISTICS

Active component collagen tripeptide Gly-X-Y ≥ 15% / Low dosage : 1-2 g per day
Immediate absorption from intestine – 4 to 5 times faster than other conventional collagen peptides owing to low molecular weight.
Maintain healthy bone, tendon and ligament / Promote bone growth and joint health.
Improve elasticity and moisture retention of skin / 15 + years and 17 published studies.

HACP – FUNDAMENTAL MINIMUM UNIT OF COLLAGEN

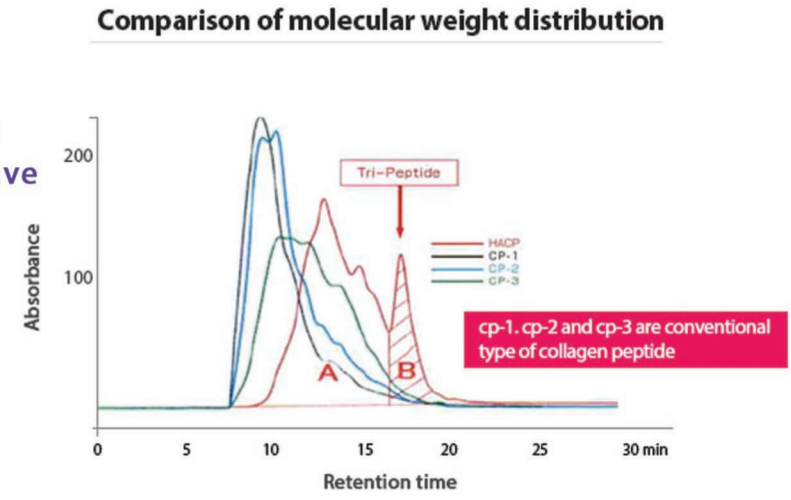
One third of amino acid composing collagen is Glycine (Gly) in a repeating sequence : Gly-X-Y-Gly-X-Y-Gly-X-Y……(X & Y are any amino acid)



HACP tripeptide (Gly-X-Y) is a fundamental minimum unit of collagen. It is specifically hydrolysed and purified by the latest technique.

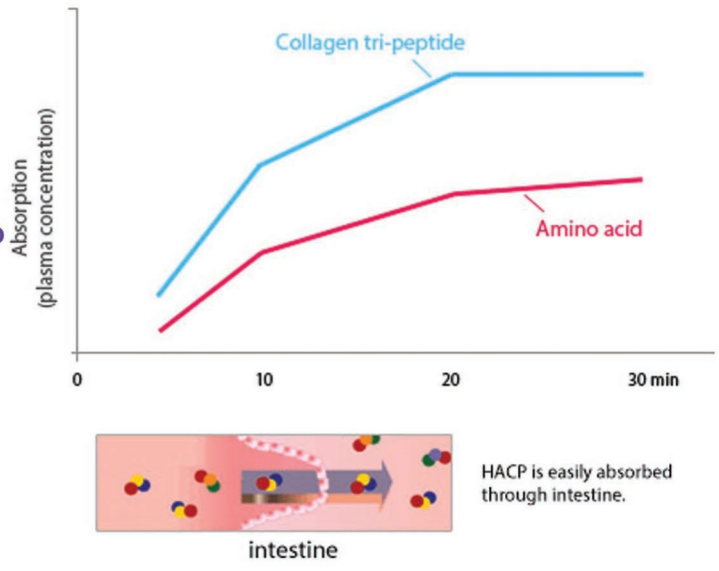
COMPARISON OF MOLECULAR WEIGHT DISTRIBUTION

Collagen peptides have no Gly-X-Y (tripeptide) ingredients, whereas HACP contains more than 15%. Thus HACP have good psychological function.



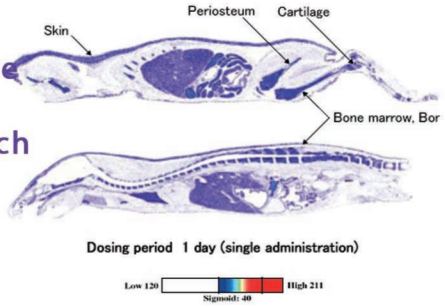
DEGREE OF ABSORPTION

Experiments have show thatHACP is absorbed into the blood vessel more quickly and effectively than amino acid molecules. Therefore, HACP is expected to bring prompt supply of collagen.

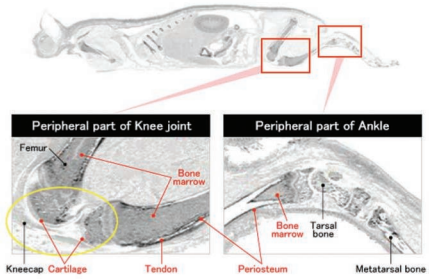


ABSORPTION TO THE HUMAN BODY AND UPTAKE TO THE TISSUES

Experiments have show that Jellice HACP is up-taken to the bone tissue and connective tissue such as bone, skin and tendon etc. selectively and efficiently.

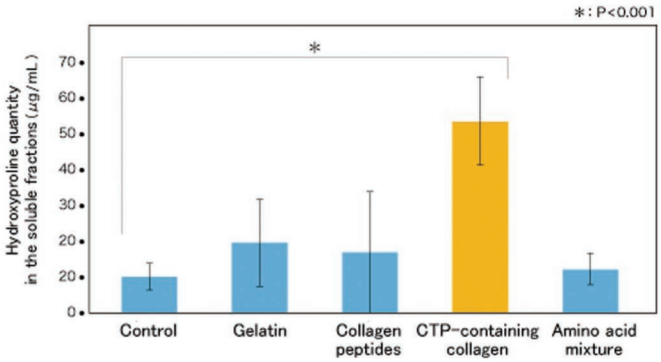


Dosing period 1 day (single administration)

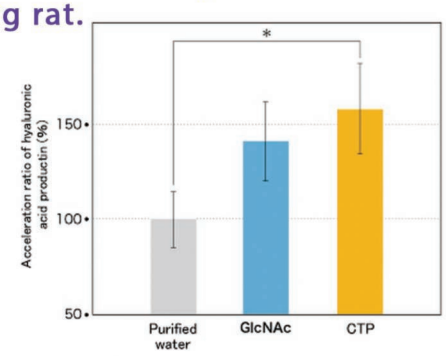


FAVOURABLE EFFECT ON SKIN

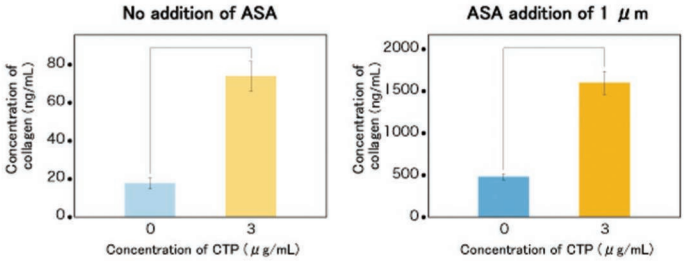
Experiments have show that HACP contributes to promote the production of collagen and hyaluronic acid by the test adopted using human fibroblast. Also it is affirmed that HACP contributes more to activate the production of dermis collagen than conventional collagen, collagen peptide and amino acid mixture by oral intake test using rat.



Comparison of collagen production with various collagen peptide



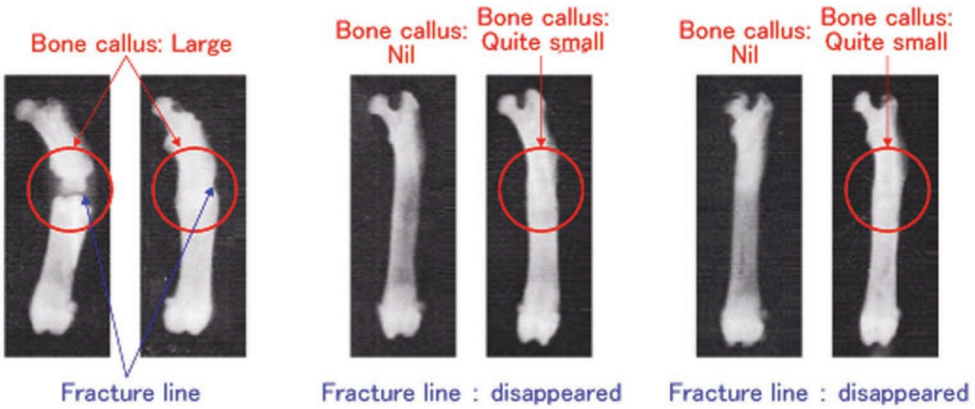
Activation of hyaluronic acid production



Promotion of collagen production

FAVOURABLE EFFECT ON BONE TISSUE

Experiments have show that HACP has favourable effect on bone tissueby using the fractured model with rat.
Thus we can expect that HACP containing collagen will greatly contribute to prevent/improve serious problems such as bone fracture and osteoporosis caused by bone aging in the aged society.



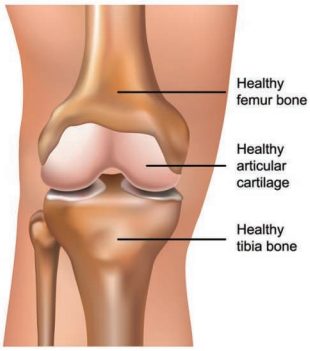
a) Control 0mg/kg

b) CTP-containing collagen 80mg/kg

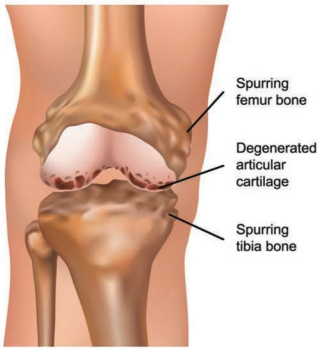
c) CTP-containing collagen 500mg/kg

FAVOURABLE EFFECT ON JOINTS

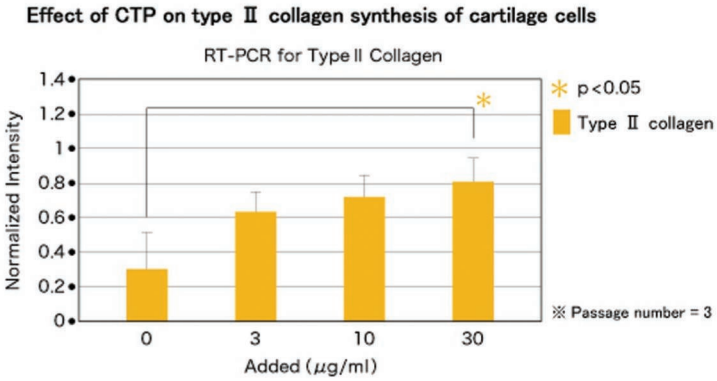
Experiments have show that HACP promotes collagen production of articular cartilage and it brings preventive / improving effect against cartilage diseases such as Osteoarthritis etc.

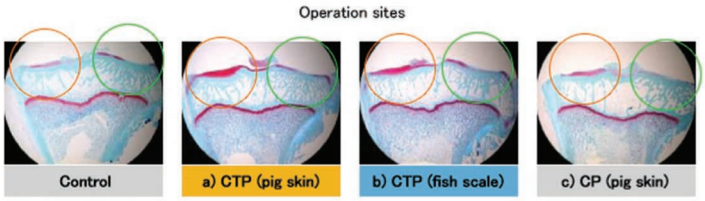


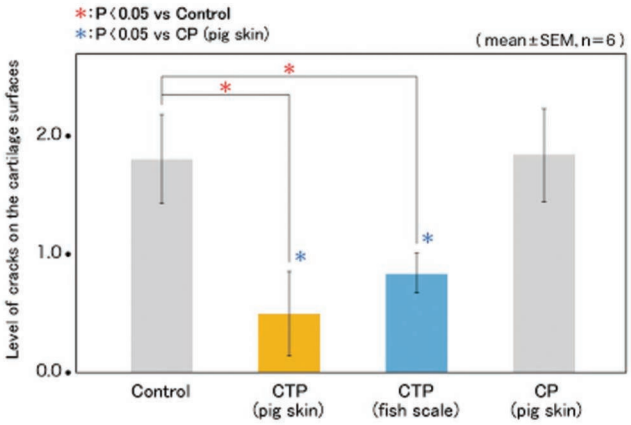
Healthy knee joint



Osteoarthritis







APPLICATION

HACP is a tripeptide which is easily absorbed in the human body. Due to its high solubility, it can be formulated into various forms like powder, granule, tablet, drink etc. Wide range of application includes :

1. Collagen supplementation for skin, hair, nail and beauty.
2. Collagen supplementation for health bone, tendon, ligament, joints etc.
3. Collagen supplementation for diet.
4. Nutritional support for elderly with low digestive function.
5. Sports Nutrition.

HACP

Active component : Collagen tripeptide "Gly - X - Y" is a fundamental minimum unit of collagen

GENERAL SPECIFICATION FOR HACP COLLAGEN TRIPEPTIDE

Raw Material	Fish / Bovine / Poultry
Configuration	Powder / Granule
Color	White / Pale Yellow
Taste	Neutral
Odor	Neutral
pH	6.0 - 8.5
Heavy Metals	≤ 20ppm
Arsenic	≤ 1ppm
Moisture	= 8% / 10%
Ash	≤ 5%
Total Plate Count	≤ 1000CFU / g
E Coli	Negative
Tri-Peptide	≥ 15%
Foreign Partical	Negative
Nitrogen Content	14 - 18 %
Mesh size	45 Mesh Pass / 14 Mesh Pass
Package	10kg / paper bag
The place of Origin	Japan / Taiwan
Average Molecular Weight	1500 Da

■ CORPORATE OFFICE ■

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