Biocell®
Collagen CG

BioCell Collagen® CG-WS

For Topical Formulations and Cosmetic Applications

Shows Dramatic Anti-aging Properties

FROST & SULLIVAN
2012 BEST PRACTICES AWARD
NORTH AMERICAN COLLAGEN PEPTIDE IN PERSONAL CARE NEW PRODUCT INNOVATION AWARD

BIOCELL® TECHNOLOGY LLC

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BioCell Collagen® CG-WS - For Topical Formulations and Cosmetic Applications

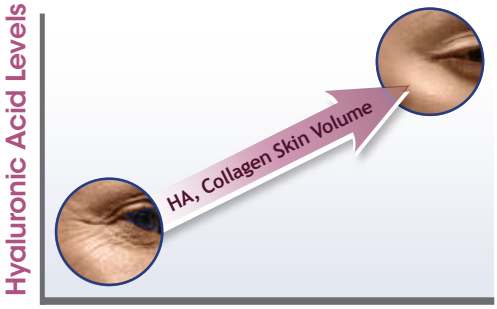
BioCell Collagen CG-WS is a patented, naturally-occurring complex of hydrolyzed collagen peptides and aggrecan containing glycosaminoglycans (GAGs) such as chondroitin sulfate (CS) and hyaluronic acid (HA). Collagen, CS, and HA are essential structural components in the skin dermis and responsible for the skin's moisture, suppleness, elasticity, and beauty. These molecules degrade as we age contributing to disarray or collapse of the dermal matrix structure, resulting in dermal dehydration and eventual aged skin appearance such as fine lines, wrinkles and superficial sagging.

Properties:

- **BioCell Collagen CG-WS** has strong hyaluronidase inhibition
- **BioCell Collagen CG-WS** protects HA from degradation
- **BioCell Collagen CG-WS** provides collagen peptides and hyaluronic acid.

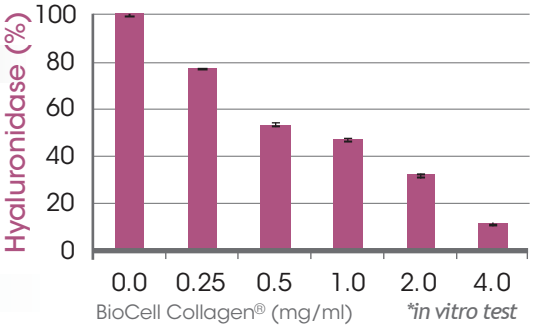
HA level in the skin is maintained by the balance of HA synthases and hyaluronidases. Aging is associated with heightened hyaluronidase activity which accelerates HA breakdown contributing to skin aging process.

The Effect of Hyaluronidase Inhibition



Function:

- Maintains skin moisture and elasticity
- Improves skin suppleness
- Protects the skin extracellular matrix and collagen network



Cosmetic Applications:

- Anti-Aging products
- Regenerative products
- Moisturizing products
- Oil-free hydrating products
- Products marketed as "natural"

Dermatologist Reviewed:

- Non- irritating
- Clinically tested
- Allergy tested
- Non-cytotoxic

Formulation:

BioCell Collagen CG-WS should be processed below 40 °C and is incorporated into the aqueous phase of a cosmetic formulation.

Suggested Concentration:

For skin care preparations we recommend the addition 3 - 6% of **BioCell Collagen CG-WS**

Efficacy:

In particular, HA is critical for skin volume and turgidity because HA is responsible for retaining water in the dermis, and HA loss leads to skin dehydration in association with both natural aging andextrinsic aging (i.e. photoaging) processes. The aging effect of HA loss can be antagonized by **BioCell Collagen** due to its HA content and ability of inhibiting hyaluronidase.

Product and Technical Information

PRODUCT NAME: BioCell Colllagen CG-WS
SHELF LIFE / STORAGE: 2 Years / Cool dry place
GRADE: Cosmetic Grade
PACKAGING: 1 Kg Container

Composition

A) Ingredients	INCI Name	Amount*
Biocell Collagen	Collagen Peptide Aggrecan Hyaluronate Copolymer	C
B) Additives	**INCI Name**	**Amount***
Solvents	Purified Water	A
Preservatives	Potassium Sorbate	F
Buffer	Citric Acid	F

* FDA-code (A = > 50%, B = 25-50%, C = 10-25%, D = 5-10%, E = 1-5%, F = 0.1-1%, G = < 0.1%)

Typical Analysis	Specification	Method
Physical Appearance	Slightly Viscous Liquid	Organoleptic
Color	Transparent Yellow	Organoleptic
Odor	Characteristic	Oragnoleptic
Ph	3.7 - 4.5	USP
Solublity	Water Soluble	USP
Microbiological		
Standard Plate Count	<3,000 Cfu/g	USP 23
Yeast And Mold	<500 Cfu/g	USP 23
E. Coli	Negative	USP 23
Salmonella	Negative	USP 23

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