High Quality, Stem Cell-Based Serum for Research Use and Use in Cosmetic Products

What is OUR PRODUCT?

- A serum containing high quality cellular ingredients
- Cellular ingredients are derived from human umbilical

cord lining stem cells (ULSCs)

 Cells derived from ULSCs have plasticity characteristics of mesenchymal stem cells

 ULSCs can be differentiated into desired ingredients for cosmetic use via culture with appropriate induction and growth media

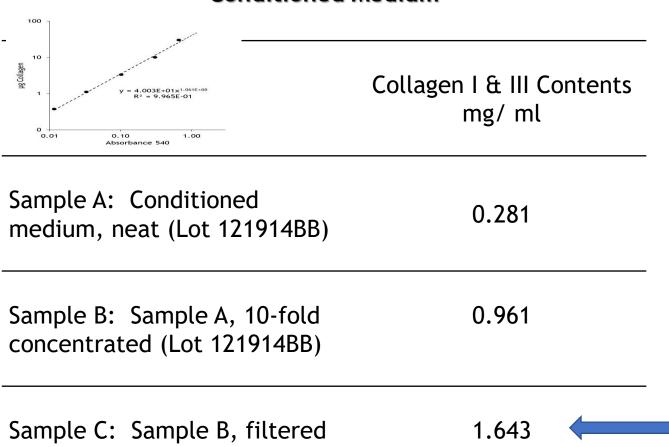
Proprietary
Patent
Pending
Process!

OUR PRODUCT Ingredients

- Collagen
 - Type I
 - Type III
- Hyaluronic Acid (HA)
- Chondroitin Sulfate (CS)

- Stem cell growth factors
 - Nerve growth factor (NGF)
 - Basic fibroblast growth factor (bFGF)
 - Stem cell factor (SCF)
 - Vascular endothelial growth factor (VEGF)

Conditioned Medium



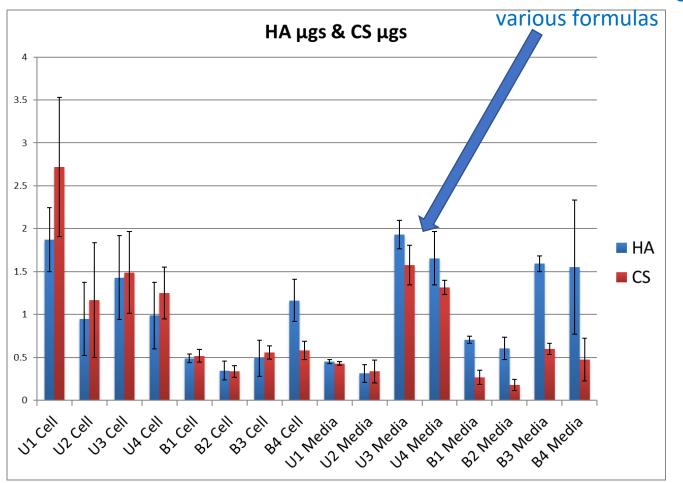
(Lot 121214BA)

Collagen

Our manufacturer uses a scientifically based process to produce the highest possible yield of collagen

Best method to obtain highest amount determined through research

HA and CS in OUR PRODUCT after testing



Hyaluronic Acid (HA) Chondroitin Sulfate (CS)

Independent testing helped determine correct formulation for maximal HA and CS production

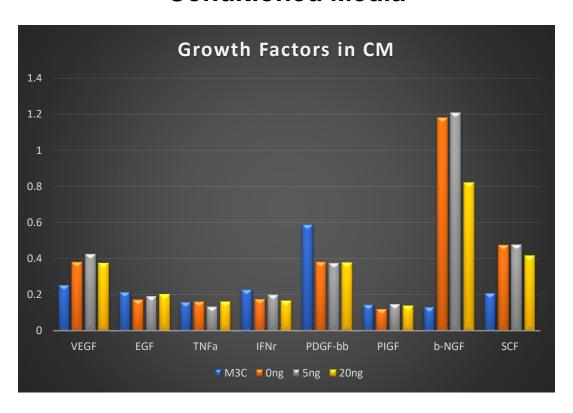
Hyaluronic Acid (HA)

 High molecular weight is the best for skin.

http://barefacedtruth.com/2015/03/31/hyaluron icacid-yes-size-does-matter/

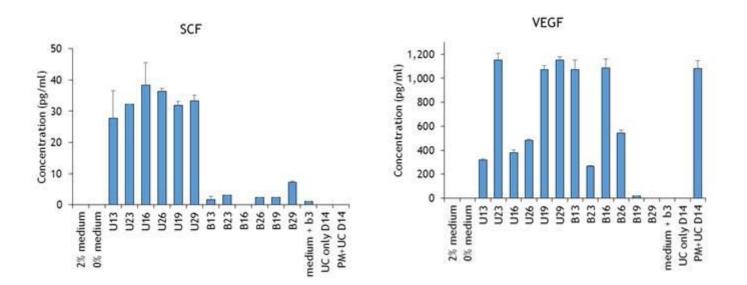
OUR PRODUCT has high molecular weight HA

Growth Factors (GF) in OUR PRODUCT Conditioned Media



Growth Factors

The production of Growth
Factors in OUR
PRODUCT is optimized
by proprietary research



U: Medium from umbilical cord lining stromal cell culture

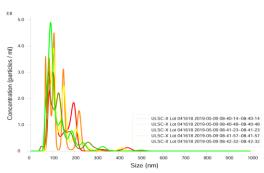
B: Medium from bone marrow mesenchymal stromal cell culture

Growth Factors

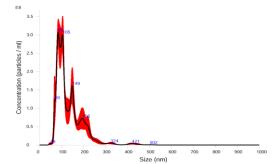
The production of Growth
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NANOSIGHT

ULSC-X Lot 041618 2019-05-09 08-37-36



FTLA Concentration / Size graph for Experiment: ULSC-X Lot 041618 2019-05-09 08-37-36



Averaged FTLA Concentration / Size for Experiment: ULSC-X Lot 041618 2019-05-09 08-37-36 Error bars indicate + / -1 standard error of the mean

Included Files

ULSC-X Lot 041618 2019-05-09 08-40-14 ULSC-X Lot 041618 2019-05-09 08-40-48 ULSC-X Lot 041618 2019-05-09 08-41-23 ULSC-X Lot 041618 2019-05-09 08-41-57 ULSC-X Lot 041618 2019-05-09 08-42-32

Details

NTA Version: NTA 3.3 Dev Build 3.3.104

Script Used: SOP Standard Measurement 08-37-36AM 09May2019.txt

08:37:36 09/05/2019

Operator:

Pre-treatment:

Sample Name:

Remarks:

Capture Settings

sCMOS Camera Type: Laser Type: Green Camera Level: 15 1206 Slider Gain: 366 FPS 25.0 Number of Frames: 749 Temperature:

(Water) 0.931 - 0.932 cP

1 x 10e2 Dilution factor: Syringe Pump Speed:

Stats: Merged Data

133.1 nm Mode: 84.5 nm SD: 61.3 nm D10: 78.8 nm 111.2 nm D90: 209.8 nm

Stats: Mean +/- Standard Error

Mode: 96.4 +/- 4.6 nm SD: 60.2 +/- 3.8 nm D10: 78.4 +/- 2.5 nm D50: 112.9 +/- 4.2 nm D90: 207.0 +/- 3.4 nm

Concentration: 2.26e+10 +/- 9.57e+08 particles/ml

133.3 +/- 4.2 nm

11.5 +/- 0.5 particles/frame 13.3 +/- 0.6 centres/frame

Exosomes

Small packets of information which carry proteins, mRNA and miRNA

2.26 x 10^{^10} per ml

What is the Intended Use of OUR PRODUCT?

- The manufacturer will supply OUR PRODUCT for use in finished cosmetic products only
- OUR PRODUCT is <u>not</u> approved for use as a drug
- The manufacturer does <u>not</u> intend for OUR PRODUCT to be used as a drug
- Purchasers of OUR PRODUCT must affirm that they intend to use OUR PRODUCT only in cosmetic products

What Are Cosmetic Uses of OUR PRODUCT?

- The FDA defines cosmetics as products that are intended:
 - to be rubbed, poured, sprinkled, or sprayed on, or applied to the human body
 - for use only to cleanse beautify, promote attractiveness, or alter appearance
- Cosmetic products cannot be injected or ingested
- Cosmetic products cannot be intended to have a drug effect

FDA Guidance on Cosmetic Uses/Claims







Examples of claims cosmetics may *NOT* make:

- x Treats a disease, such as acne, eczema, or rosacea
- X Increases collagen
- X Revives cells

Our Manufacturer Will:

- Supply high quality PRODUCT as a raw material for use in finished cosmetic products
- Manufacture OUR PRODUCT in accordance with FDA's cosmetic Good Manufacturing Practices
- Conduct microbial testing and provide documentation of test results
- Not provide labeling claims for finished products that contain OUR PRODUCT

Purchasers of OUR PRODUCT Will:

- Be responsible for compliance with applicable regulatory requirements for manufacturing the finished cosmetic product
- Be responsible for compliance with applicable regulatory requirements for testing and ensuring the safety of the finished cosmetic product
- Be responsible for compliance with applicable regulatory requirements for *labeling* the finished cosmetic product
- Be responsible for promotional claims and materials of the finished cosmetic product

Please contact us for supply inquiries:

Syed Raheel

President - Samhar Cosmetics

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