



iS CLINICAL
EDUCATION

Growth Factors

WORKBOOK



Growth Factors

1. A _____ factor is a naturally occurring substance capable of stimulating _____ growth, proliferation, healing, and cellular differentiation.

- Usually it is a _____ or protein.

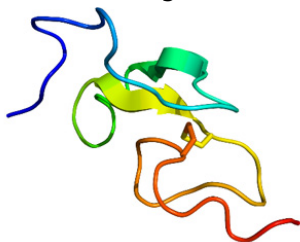
2. In 1986 the Nobel Prize was awarded for the discovery of two growth factors:

_____ growth factor

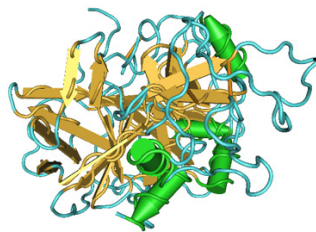
_____ growth factor

3. _____ of all cosmetic dermatologist are already selling some type of product containing growth factor ingredients.

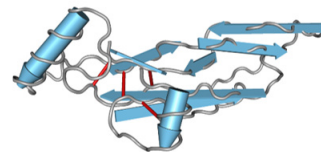
4. Fill in the missing terms for the Growth Factor molecules in the illustration below.



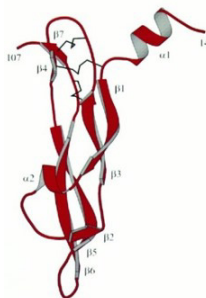
Growth Factor



Growth Factor



Transforming Growth Factor Beta



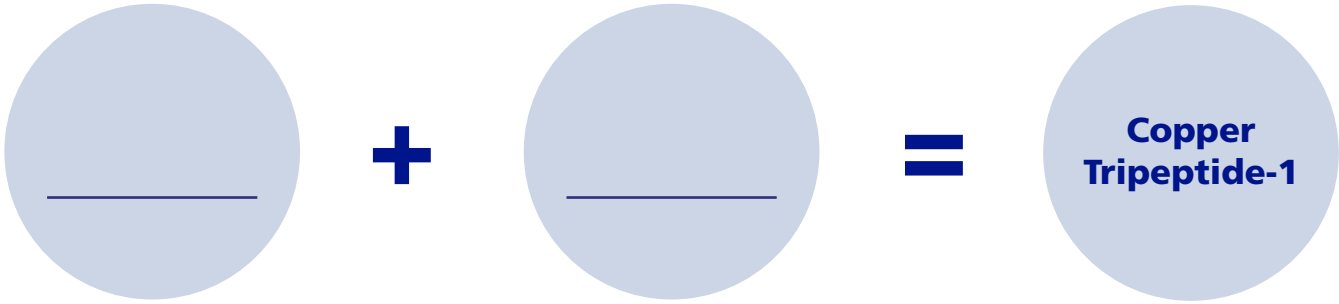
Growth Factor



Platelet-Derived Growth Factor

5. It is difficult to get a growth factor through intact skin. Some of the initial research on growth factors was performed on _____.

6. _____ is a growth factor analog. It is composed of:



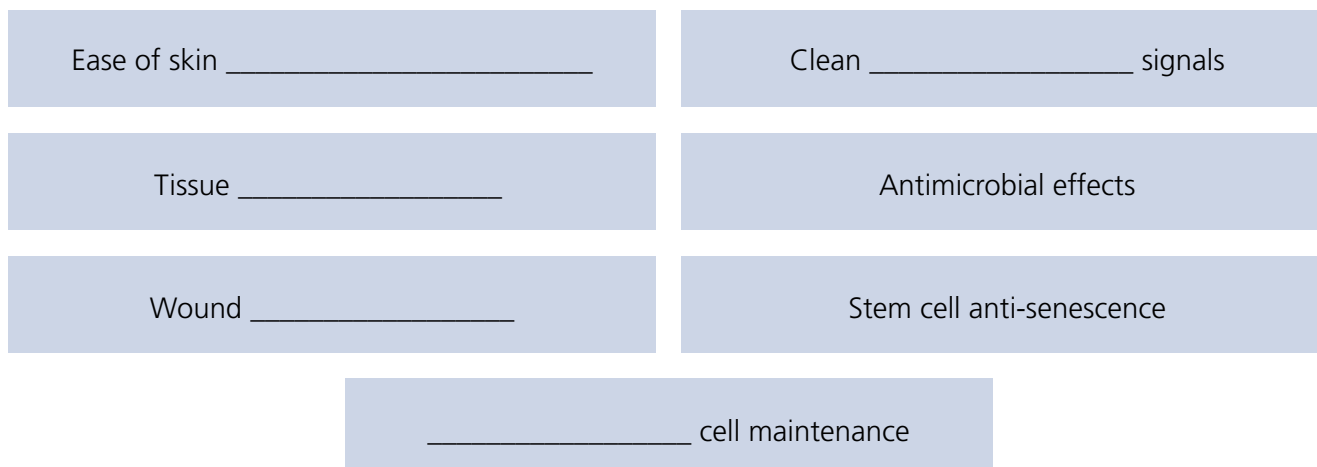
7. Fill in the chart below:

COPPER TRIPEPTIDE-1 BENEFITS	
Increases _____ production	

Inhibits growth of _____ cells	

8. The origin of growth factors in cosmeceuticals today comes from _____ tissue.

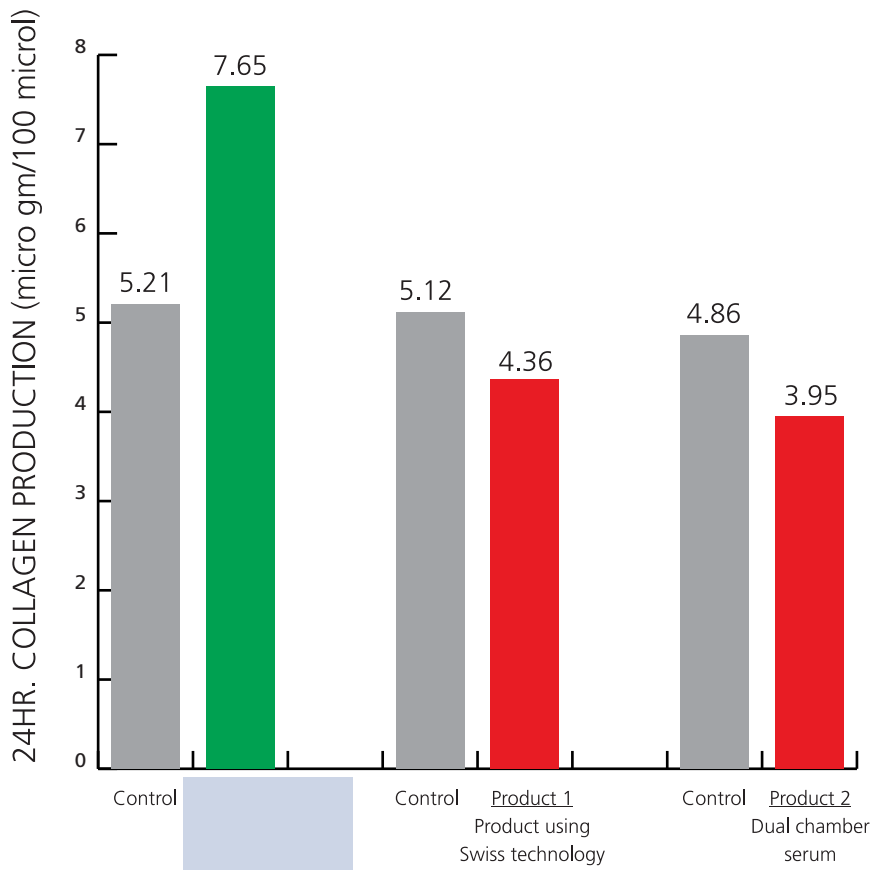
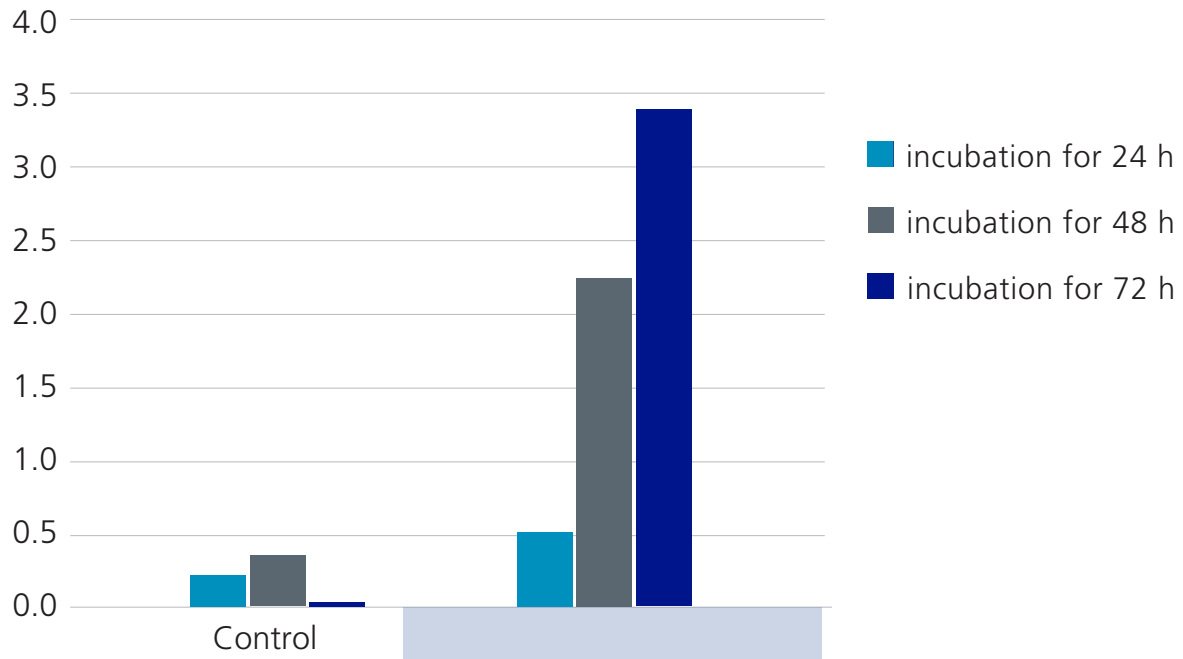
9. Advantages of Copper Tripeptide-1 in skin care:



10. Below are the iS CLINICAL products that contain Copper Tripeptide-1.



11. The below graphs were each taken from a different study using iS CLINICAL products. Write which products were used to obtain these graphs.



Related iS CLINICAL Products



SUPER SERUM ADVANCE⁺

BENEFITS

- Helps reduce the appearance of fine lines and wrinkles
- Helps improve the look of hypertrophic (raised) scar tissue and fine stretch marks
- Safely brightens and helps visibly diminish uneven skin tone
- Provides support against environmental aggressors
- Provides extremely powerful antioxidant protection
- Paraben-free



YOUTH INTENSIVE CRÈME

BENEFITS

- Provides powerful, 24-hour hydration
- Helps plump and smooth the appearance of fine lines and wrinkles
- Stimulates the production of collagen to dramatically decrease the appearance of lines and wrinkles over time
- Rich, protective crème formula
- Gently exfoliates for increased vitality
- Delivers essential nutrients to the skin
- Provides potent antioxidant protection
- Improves the appearance of skin strength and elasticity
- Paraben-free



YOUTH EYE COMPLEX[®]

BENEFITS

- Provides penetrating hydration
- Reduces the appearance of periorbital fine lines and wrinkles (including crow's feet)
- Provides immediate and long-term improvements
- Enhances the appearance of firmness and elasticity
- Soothes and brightens the under-eye area
- Excellent for lip area
- Paraben-free



YOUTH COMPLEX[®]

BENEFITS

- Reduces the appearance of fine lines and wrinkles
- Smooths and softens wrinkles
- Firms and tightens
- Provides immediate, intermediate, and long-term improvements
- Provides antioxidant protection
- Paraben-free



REPARATIVE MOISTURE EMULSION

BENEFITS

- Smooths and hydrates the skin
- Helps reduce the appearance of fine lines and wrinkles
- Provides penetrating and surface hydration
- Helps prevent environmental damage with Extremozyme[®] technology
- Excellent moisturizing prep for makeup (created in conjunction with leading makeup artists)
- Great for all skin types including oily and sensitive skin
- Paraben-free