

## AnteAGE MD® Hair Solution

2ml Rollerball Vials (Box of 5) | All Hair Types, All Ages

**AnteAGE MD® Hair Solution** incorporates recent advances in hair follicle science. Specialized techniques influence bone marrow mesenchymal stem cell cultures to produce conditioned media focused on hair growth (Wnt-1a pathway) while twelve bio-identical growth factors and cytokines, each with proven efficacy in hair follicle stimulation, are added to make this the most scientifically advanced product of its type.

### APPLICATION & USAGE

1. Patient should shampoo hair prior to treatment appointment and do not apply hair dressing.
2. Apply topical analgesic per protocol and according to needle length used.
3. Clean and disinfect skin.
4. Divide treatment area into sections per protocol.
5. Apply to each section immediately prior to treatment.
6. Apply again to all treated sections at end of procedure.

### KEY SELLING POINTS

- Contains Bone Marrow Mesenchymal Stem Cell derived cytokines. Specially treated to influence signaling towards the Wnt-1a pathway for follicle regeneration – an industry first.
- Formulated with a Hyaluronic Acid base and no toxic ingredients seen in other microneedling solutions.
- Additional recombinant growth factors responsible for hair follicle replication and regeneration are added for a more targeted follicular focus.
- All skin & hair types, including treated hair.
- Reduces the need to draw patients blood and centrifuge to extract PRP.
- Can be used post-procedure on hair transplants to initiate healing response.
- Can be used together with PRP in alternating treatments.

### KEY INGREDIENTS & FUNCTIONS

#### Wnt-1a Treated Bone Marrow Mesenchymal Stem Cytokines

Physiologically balanced bio-signals released upon culture of Bone Marrow stem cells. Wnt signaling is regulated during hair follicle replication and regeneration, telogen-anagen reentry and follicular environmental modulation. Fine tuning this signaling allows better communication to the target site (follicle) for desired hair growth.

#### Hyaluronic Acid

Excellent gliding agent; humectant; native to the skin; supports ECM.

#### Recombinant Insulin-Like Growth Factor 1 (IGF-1)

This is the major mediator of growth hormone stimulated somatic growth, and mediator of GH-independent anabolic responses.

#### Recombinant Insulin-Like Growth Factor 2 (IGF-2)

This is the major mediator of growth hormone stimulated somatic growth, and mediator of GH-independent anabolic responses.



<b>Acidic Fibroblast Growth Factor (FGF-1)</b>	Stimulates hair growth by b-Catenin expression and inducing the anagen phase in resting hair follicles.
<b>Basic Fibroblast Growth Factor (FGF-2)</b>	Stimulates hair growth by b-Catenin expression and inducing the anagen phase in resting hair follicles.
<b>Keratinocyte Growth Factor (KGF)</b>	Binds to the KGF receptor to stimulate hair growth. Stimulates epithelial cell proliferation, differentiation, and migration and promotes a number of cell protective mechanisms.
<b>Keratinocyte Growth Factor 2 (KGF-2)</b>	Binds to the KGF receptor to stimulate hair growth. Stimulates epithelial cell proliferation, differentiation, and migration and promotes a number of cell protective mechanisms.
<b>Stem Cell Factor (SCF)</b>	Expression of stem cell factor is necessary for the maintenance of differentiated melanocytes and for hair pigmentation.
<b>Colony Stimulating Factor 1 (CSF-1)</b>	Immunomodulatory cytokine that regulates cell proliferation and differentiation, and may play an important role in regulating hair growth.
<b>Platelet Derived Growth Factor Alpha (PDGF-a)</b>	Plays a role in stimulating the proliferation of dermal mesenchymal cells that contribute to the formation of the dermal papillae.
<b>Erythropoietin (EPO)</b>	Promotes hair shaft growth and modulation by stimulating dermal papilla cells.
<b>Noggin (NOG)</b>	Cellular signaling required for induction of the hair follicle growth phase (Anagen).
<b>Vascular Endothelial Growth Factor A (CG-VEGF)</b>	Strongest regulator of physiological angiogenesis. Induces proliferation of human hair follicle dermal papilla cells.
<b>C3PiPa</b>	Controls Janus kinase signal transducer and activator of transcription (JAK-STAT). Induces rapid onset of anagen and subsequent hair growth.

#### Ingredients:

Water (Aqua), Human Bone Marrow Stem Cell Conditioned Media, Benzyl Alcohol, Dehydroacetic Acid, Hyaluronic Acid, IGF-1 (sh-Oligopeptide-2), HGF (sh-Polypeptide-62), TGF-b3 (sh-Polypeptide-5), bFGF (sh-Polypeptide-1), KGF (sh-Polypeptide-3), SCF (sh-Polypeptide-4), KGF-2 (sh-Polypeptide-10), CSF-1 (sh-Polypeptide-73), PDGF-A (sh-Polypeptide-8), EPO (sh-Polypeptide-72), Noggin (sh-Polypeptide-13), CG-VEGF (sh-Polypeptide-9)