# BIO-Placenta Hair Improvement of scalp condition

INCI

Water, Glycerin, Lecithin, Alcohol, Propanediol, Arginine, Caprylyl Glycol, Phenoxyethanol, Citric Acid, Eucalyptus Globulus Leaf Extract, Tocopherol, sh-Polypeptide-11, sh-Polypeptide-1, sh-Oligopeptide-2, sh-Oligopeptide-10, sh-Polypeptide-9

### CFDA

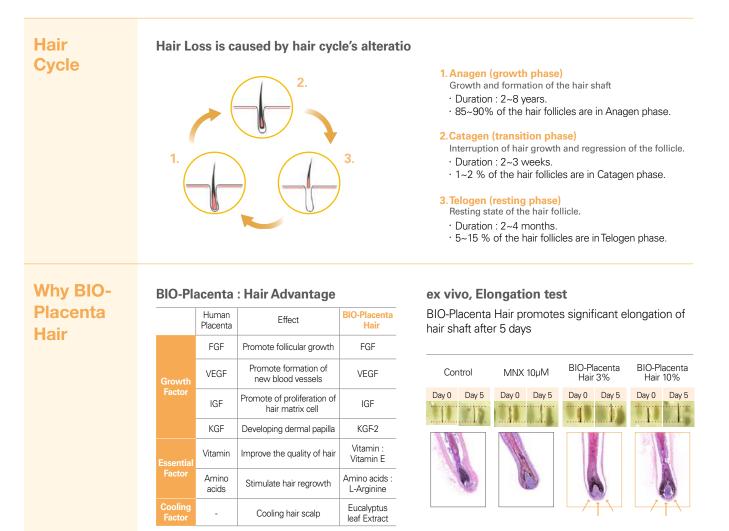
Water, Glycerin, Lecithin, Alcohol, Propanediol, Arginine, Caprylyl Glycol, Phenoxyethanol, Citric Acid, Eucalyptus Globulus Leaf Extract, Tocopherol, Hexapeptide-11, Oligopeptide-3, Oligopeptide-2, Oligopeptide-6

#### **Benefit**

Regulating hair cycle, Controlling hair scalp condition

ΛΒΙ

5 safely synthesized growth factors stimulate mRNA expression, essential factors such as beneficial Vitamin improves hair quality, Amino acids provides moisturizing effect and natural extract for cooling effect are working synergistically to regulate hair scalp condition.



# in vitro Assay

## Protein expression profile

Detection method : Western blot

|                         | CTL | Minoxidil<br>10µM | BIO-Placenta<br>Hair 3% | BIO-Placenta<br>Hair 10% |
|-------------------------|-----|-------------------|-------------------------|--------------------------|
| $\beta$ -catenin(92kDa) | -   | -                 | -                       | -                        |
| p-AKT(S473)(60kDa)      |     |                   | -                       | -                        |
| p-GSK3B(S9)(46kDa)      |     |                   | -                       |                          |
| $\beta$ -actin(45kDa)   | -   | -                 | -                       | -                        |

HDP(Human Dermal Papilla) Cell proliferation BIO-Placenta Hair increases HDP cell proliferation by induced Wht / b-catenin

