



Recombinant Mussel Adhesive Proteins, Sterile Lyophilized Powder , Molecular Biology Grade

Product Number: RPA0601

Shipping and Storage

1. Short term environmental temperature transportation and storage; It is recommended to seal and store at a temperature below -20 °C.
2. The shelf life of storage in a dry environment below -20°C is at least 1 year.

Description

This product is fermented and freeze-dried using genetically engineered mussel mucin gene yeast. This protein has viscosity, can promote wound healing, anti-inflammatory and accelerate skin repair, and has excellent biocompatibility and non toxicity. The key dopaminergic group is the core functional factor of this protein, and only the mussel mucin containing dopaminergic groups has true value. At present, most recombinant mussel mucins and mussel like mucins rarely detect the presence of Dopa groups. The product developed by our company can clearly measure DOPA, and its protein content and purity are leading in the industry. This product is mainly used in three fields: 1. Medical bio adhesive: suitable for ophthalmic surgery such as corneal or conjunctival rupture; 2. Spray agent: used for repairing skin and mucosal repair caused by burns, scalds, surgeries, etc., and also suitable for auxiliary treatment of rhinitis; 3. Cosmetics industry: mainly facial mask, face cream and essence. The product complies with ISO9001 standards and all raw materials can be traced.

Application

Medical biological adhesive: used for corneal or conjunctival rupture surgery, skin tissue and bone bonding, etc; Spray agent: used for repairing skin injuries such as burns, scalds, and postoperative injuries, and has the effects of local itching relief, anti-inflammatory, and promoting repair. It can also be used as an auxiliary treatment product for rhinitis; Cosmetics: It can form a micro nano protective film on the skin surface, which plays the role of physical barrier and antioxidant. It is mostly in the form of facial mask, face cream and essence in the market.

Specification

1. **Source species:** mussel
2. **Molecular weight:** 16.06KD
3. **PI:** 10.01
4. **Dilution buffer:** purified water
5. **Storage buffer:** 0.5% acetic acid

Quality control

1. **Appearance:** White or yellowish freeze-dried powder
2. **Odor:** Slightly acidic
3. **Packing quantity:** not less than the marked quantity
4. **Solubility:** 5.9mg/mL
5. **PH:** 4.5-8.5
6. **Purity:** ≥ 90%
7. **Protein content:** ≥95%
8. **DL-DOPA:** ≥3%
9. **Moisture content:** <15%



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10. **Adhesive force:** $\geq 400\text{N}$
11. **Heavy metals:** The total heavy metal content (calculated as lead) should not exceed $10\mu\text{g/g}$, arsenic content should not exceed $2\mu\text{g/g}$, and mercury content should not exceed $1\mu\text{g/g}$.
12. **Endotoxin:** $\leq 10\text{EU/mg}$
13. **microorganism:** The total number of bacterial colonies should be $\leq 200\text{cfu/g}$; The total number of fungal colonies should be $\leq 100\text{cfu/g}$; Escherichia coli and pathogenic pyogenic bacteria should not be detected.

Note

1. For your safety and health, please wear lab clothes, protective gloves, goggles, etc. when using.
2. This sterile freeze-dried powder is prone to moisture absorption, please seal and store.