

Sodium Polyanethole Sulfonate

Product Information

Product Name: Sodium Polyanethole Sulfonate

Alternative Name: (E)-1-Methoxy-4-(1-propenyl)benzene homopolymer sulfonated sodium salt

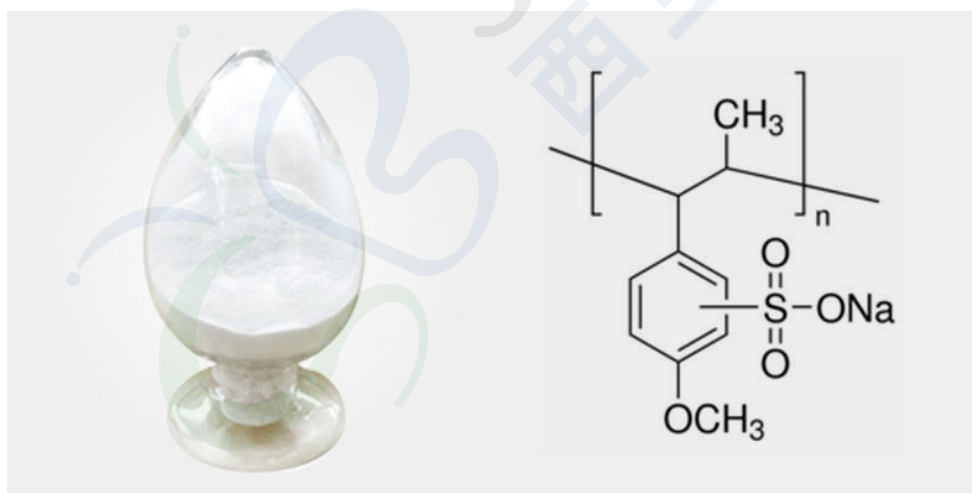
CAS No: 55963-78-5

Molecular formula: C₁₀H₁₂NaO₄S

Appearance: Off- white and faint beige powder

Packaging: 5g/100g/1Kg

Storage: Store at RT. Protect from moisture.



Product Introduction

Sodium polyanethosulfonate, commonly known as SPS, is a white to light yellow crystalline powder. It has the remarkable ability to neutralize even trace amounts of antibiotics present in the blood, thereby enhancing the likelihood of a positive blood culture result. SPS finds application in anaerobic bottles or bidirectional culture bottles that are utilized for blood cultures.

Mechanism of Sodium Polyanethosulfonate (SPS)

SPS exhibits a diverse array of biological functions. It effectively neutralizes lysozyme, suppresses phagocytosis, renders certain aminoglycoside antibiotics inactive, blocks specific complement cascades, and fosters the growth of resilient microorganisms. Owing to its enriching properties, SPS significantly boosts the positive detection rate in cultures, making it a valuable addition to enrichment cultures. Additionally, SPS possesses anticoagulant activity, achieved by potentiating the activity of antithrombin III (AT III) and inhibiting the serine protease thrombin and coagulation factor Xa, crucial components in the coagulation cascade.

Applications

1. Incorporated into anaerobic bottles and biphasic bottles as an enrichment culture medium.
2. Serves as an anticoagulant and can be added to blood samples or blood collection tubes to prevent coagulation.
3. Utilized to stabilize colloidal solutions, such as milk and gelatin, ensuring their consistency and integrity.



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