

SDS dust-free Granules

REF: CP21209S/M

Storage Condition

Store at room temperature for three years

Components

Component	CP21209S	CP21209M
SDS dust-free Granules	250 g	1 kg

Description

Sodium lauryl sulfate is an organic substance that dissolves in water and has decontamination, emulsification and excellent foaming power, and can be used for protein denaturation. It is a long-chain aliphatic hydrocarbon group with negatively charged sulfates, making it a natural amphoteric detergent. In the DNA extraction process, proteins can be denatured and separated from DNA, and are often used for biochemical and immunoassays. Conventional SDS is powdery, small particle size, can not be isolated by ordinary dust masks, easy to adsorb on mucous membranes, upper respiratory tract, eyes and skin, has irritating effect, can cause respiratory allergic reactions. And Yugong has optimized the process and made it into dust-free particles, the high probability of reducing the damage caused by the powder to the human body.

Application direction

1. SDS is an anionic surfactant commonly used for electrophoretic separation of proteins and lipids. When it is mixed with a protein and the mass ratio reaches 1.4:1, SDS can destroy the non-covalent bonds between protein molecules and other substances, change the conformation of the protein, and then denature and dissociate the protein into a single subunit, thereby reducing or eliminating the natural charge difference between various protein molecules. Electrophoresis typically uses 10% SDS as a stock solution.

2. SDS can rapidly disrupt tissue structure and inhibit RNase and DNase activity, so SDS is also a key component of nucleic acid purification reagents. Typically, 10% or 20% SDS stocks are used, and the working concentration of SDS is 0.1~0.5%.