

Dodecyl sodium sulfate (SDS)

Description

The product is the core raw material for nucleic acid extraction after strict screening and quality control. Sodium dodecyl sulfate (SDS) is a very efficient surfactant, which can dissolve almost all proteins. It can destroy the non covalent bond of protein, so as to denature the protein and lose its natural conformation and function. In the application of nucleic acid extraction, SDS is often used to destroy the cell membrane (lyse cells) to release soluble substances in cells. It can destroy the connection between protein, protein lipid and lipid lipid, denature the protein structurally and destroy its three-dimensional structure. SDS will precipitate at low temperature because it belongs to the one with the highest critical micelle temperature among detergents, and this precipitation phenomenon will be more obvious in the presence of potassium salt. This characteristic of SDS can be used to remove protein from digestive juice.

Ordering Information

CAT.No.	Product Name	Package
C11203	Sodium dodecyl sulfate (SDS)	1KG
C11204	(Molecular Biology)	5KG

Specifications

Product Name	Lauryl sulfate sodium salt, Sodium lauryl sulfate, Dodecyl sulfate sodium salt, SDS, Dodecyl sodium sulfate	
Basic content	CAS	151-21-3
	Molecular formula	CH ₃ (CH ₂) ₁₁ OSO ₃ Na
	molecular weight	288.38
	content	99.0%
	level	Molecular Biology
	appearance	White flake crystal
	Preservation conditions	room temperature
	stability	Unlimited in dry conditions. Storage in dark container
Impurity parameters	Moisture	≤1.0%
	sodium sulphate	≤0.1%
	sodium chloride	≤0.1%
	phosphate	≤1ppm
	lead	≤2ppm
	iron	≤1ppm
	nitrogen	≤5ppm
	arsenic	≤0.1ppm
	Petroleum ether soluble matter	≤0.2%
	Fraction content	>99.0%
UV absorption value	Absorbance value @ 230 (6M)	≤0.05
	Absorbance value @ 260 (6M)	≤0.01
	Absorbance value @ 280 (6M)	≤0.05
	Absorbance value @ 320 (6M)	≤0.01
Nucleic acid extraction related	Plasmid extractio	adopt
	Tissue DNA extraction	adopt
	Circulating DNA extraction	adopt
	DNase test (1%)	Not detected
	RNase test (1%)	Not detected
	Saturated solution (20%)	It is soluble when stirred at room temperature, No filtering required
	PH (1%)	5.0-8.0