

# SMART REAGENTS

## Sodium Dodecyl Sulphate Reagent (SDS)



### Features

- Prepared from analytical grade reagent
- Anionic detergent
- Denaturing agent used in SDS-PAGE
- Choice of tablets and powder in pouches
- Dissolve and use in minutes

### Product description

The SDS reagent is an anionic detergent that denatures secondary and non-disulfide-linked tertiary protein structures. It applies a negative charge to each protein in proportion to its mass. SDS binds in a ratio of approximately 1.4 g SDS per 1.0 g protein, unfolding it to give a near-uniform negative charge along the length of the polypeptide chain. As a result, the distance of migration through the gel in SDS-PAGE electrophoresis can be assumed to be directly related only to the size of the protein.

Medicago's SDS reagent is supplied in pre-weighed tablets. One tablet weighs 0.5 g and can be dissolved in deionized water to the desired volume and concentration. SDS reagent powder mix in pouches give 1000 ml of 10% or 20% sodium dodecyl sulphate solution.

### Applications

- Solubilizes and denatures proteins
- SDS-PAGE electrophoresis
- Western blots

### Directions for use

Empty one pouch or deposit one tablet of the SDS reagent in a laboratory flask or beaker placed on a magnetic stirrer. Add 300 ml of deionized water and stir the solution for a few minutes. Adjust the volume up to 1000 ml, stir until full dissolution and the solution is ready to use.

### Specifications

Chemicals	Analytical grade
Format	Exactly pre-weighed tablets or powder
Concentration	10% or 20% solution
Weight	0.5 g/tablet
Volume	pouch: 1000 ml, tablet: as required
pH	3.0 ± 0.05 at 25°C
Shelf life	Three years after production date

Deposit one tablet of the SDS reagent in a laboratory flask or beaker placed on a magnetic stirrer. Add deionized water and stir the solution for a few minutes until full dissolution. Adjust the volume up to required concentration and the solution is ready to use.

### Shipping and storage

The SDS reagent is shipped at room temperature. Store the tablets and pouches in a dry place at room temperature. Shelf life is three years.

### Tips and hints

If the tablet or the contents of the pouch is not properly dissolved, make sure:

- the water temperature is 25°C (do not exceed this temperature)
- the solution is properly stirred.



### Ordering information

Article no.	Product name	Pack size	Solution vol.
09-2026-1000	SDS	1000 tablets	0.5g/tablet
09-2026-50	SDS	50 tablets	0.5g/tablet
12-9193-5	SDS 10 %	5 pouches	1000 ml/pouch
12-9194-5	SDS 20 %	5 pouches	1000 ml/pouch

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