Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for MB-046-0100

20% Sodium Dodecyl Sulfate (SDS)

Overview

Description:	20% (w/v) Sodium Dodecyl Sulfate (SDS) - MB-046-0100
Item No.:	MB-046-0100
Size:	100 mL
Applications:	SDS-PAGE, Cellular Assay, IF

Product Details

Background:	SDS, sodium dodecyl sulfate is an anionic surfactant. SDS is commonly used in laboratory as component of buffer for cell lysis, cell lysis during DNA extraction and mostly in SDS-PAGE running buffer. Indeed, SDS is an anionic detergent applied to protein sample to linearize proteins and to impart a negative charge to linearized proteins.
Synonyms:	Sodium dodecyl sulfate buffer, Sodium laurilsulfate buffer, SDS buffer

Target Details

Purity/Specificity:	This product was aseptically filtered through a Millipore 0.22 micron filter into clean, pre-sterilized containers. The product was tested on trypticase soy agar for 24 hours, 48 hours and 72 hours and was found to be negative for bacteria.

Application Details

Tested Applications:	SDS-PAGE
Suggested Applications:	Cellular Assay, IF (Based on references)
Application Note:	This product is a concentrated stock solution and should be diluted appropriately with distilled, deionized water or equivalent to its final working concentration. Product consists of 20% (w/v) Sodium Dodecyl Sulfate (SDS). Meticulously prepared using ultra pure reagents dissolved in highly polished pharmaceutical grade deionized water.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	20 %
Buffer:	See application note.
Preservative:	None
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store container at room temperature (18° to 26° C) prior to opening.
Expiration:	Expiration date is six (6) months from date of receipt.

Images

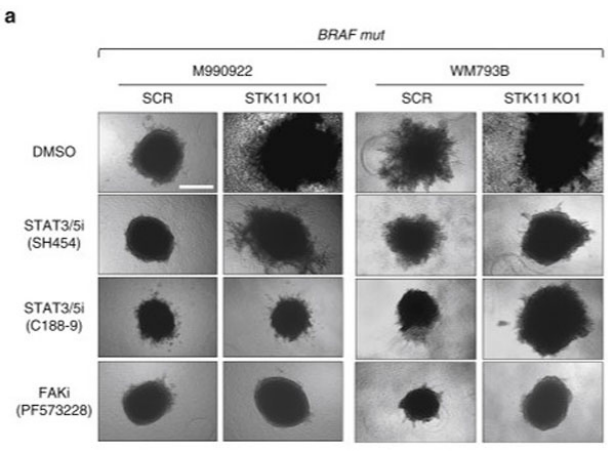


Figure
STK11 loss–mediated invasion is prevented by STAT3/5 and FAK inhibition. (a) Collagen-embedded spheroids were treated with STAT3/5 (SH-45-4 and C188-9) and FAK (PF-573228) inhibitors at 5 µM for M990922 and at 20 µM (SH-45-a) and 10 µM (PF-573228) for WM793B. Bar = 500 µm. The cells were fixed and stained with a filtered crystal violet solution (crystal violet 0.05% w/v, formaldehyde 1%, methanol 1%, in PBS) for 20 minutes. After air drying of the plates, the crystal violet was solubilized through incubation with 100 µl SDS 2% (p/n MB-046-1000) per well at room temperature for 30 minutes. Figure 6. PMID: 34757069.



Bottle
20% (w/v) Sodium Dodecyl Sulfate (SDS)

References

- Saar-Kovrov V et al. Protein carbamylation in atherosclerotic plaques correlates with uremia and disease progression, localizing predominantly to foam cells. *Front Immunol.* (2025)
- Dzung A et al. STK11 Prevents Invasion through Signal Transducer and Activator of Transcription 3/5 and FAK Repression in Cutaneous Melanoma. *J Invest Dermatol.* (2022)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.