PRODUCT INFORMATION



Sulforhodamine B (sodium salt) (technical grade)

Item No. 31539

CAS Registry No.: 3520-42-1

Formal Name: 3,6-bis(diethylamino)-9-(2,4-

disulfophenyl)-xanthylium, inner

salt, monosodium salt

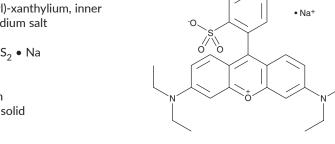
Synonym: Acid Red XB

MF: $C_{27}H_{29}N_2O_7S_2 \bullet Na$

FW: 580.7 **Purity:** UV/Vis.: λ_{max} : 553 nm Supplied as: A crystalline solid

-20°C Storage: Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



Laboratory Procedures

Sulforhodamine B (sodium salt) (technical grade) is supplied as a crystalline solid. A stock solution may be made by dissolving the sulforhodamine B (sodium salt) (technical grade) in the solvent of choice, which should be purged with an inert gas. Sulforhodamine B (sodium salt) (technical grade) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of sulforhodamine B (sodium salt) (technical grade) in these solvents is approximately 10 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of sulforhodamine B (sodium salt) (technical grade) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of sulforhodamine B (sodium salt) (technical grade) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Sulforhodamine B is an aminoxanthene dye. It binds basic amino acid residues under mild acidic conditions, which can be quantified by colorimetric detection at 510 nM, and is commonly used for cell density quantification in cytotoxicity screening. 1,2

References

- 1. Skehan, P., Storeng, R., Scudiero, D., et al. New colorimetric cytotoxicity assay for anticancer-drug screening. J. Natl. Cancer Inst. 82(13), 1107-1112 (1990).
- Vichai, V. and Kirtikara, K. Sulforhodamine B colorimetric assay for cytotoxicity screening. Nat. Protoc. **1(3)**, 1112-1116 (2006).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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