Triton X-100 Reduced

Product Number X-100-RS
Store at Room Temperature

Product Description
CAS Number: 92046-34-9
Density: 1.029 g/ml
Critical micellar concentration (CMC): 0.25 mM
pH (1% in water): 4.4-6.0

To make this product, the benzene ring in TRITON® X-100 has been reduced to a cyclohexane ring. This makes the product useful in the study of fluorescence and UV absorption properties of proteins in solution. The benzene ring in TRITON X-100 has fluorescent and UV absorption properties that overlap those of proteins and nucleic acids (260-280 nm).

TRITON X-100 often preserves the native conformation of proteins isolated from the cellular membrane in solution.1,2,3

It has been reported that a 1% solution of TRITON X-100 reduced did not inhibit enzymatic activity, distort the HPLC resolution of peptides, or contain UV-absorbing contaminants that could interfere with peptide identification.4 It has been used in the enzymatic digestion of membrane-bound proteins by either trypsin or endoproteinase Lys-C. The enzymes have activity in the presence of 1% TRITON X-100 reduced, 100 mM Tris HCl, pH 8, for 24 hours at 37 °C.

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions
This product is miscible with water (100 µl/ml, with sonication as necessary), yielding a very slightly hazy, colorless solution.

References

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