

Product Information

Sodium deoxycholate monohydrate BioXtra

Product Number **D5670**
Store at Room Temperature

CAS RN 145224-92-6
Molecular Formula: $C_{24}H_{39}NaO_4 \cdot H_2O$
Molecular Weight: 432.57
 pK_a :¹ 6.58
 λ_{max} :² 310 nm
Extinction Coefficient: $E^{mM} = 9.4$
Specific Rotation:¹ +55°
(1 g/100 ml in ethanol at 20 °C)

Product Description

Trace elemental analyses have been performed on the BioXtra deoxycholic acid. The certificate of analysis provides lot-specific results. BioXtra deoxycholic acid is for applications which require tight control of elemental content.

The CMC is 0.21% (5 mM) and it is considered to be readily dialyzable.³

Deoxycholic acid has been used in a modified procedure to recover 40-80% of a protein from a 1 µg/ml solution.⁴

Deoxycholic acid forms molecular coordination compounds (so-called choleic acids) with many substances. Complexes with fatty acids have been studied extensively.¹

Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

The free acid is soluble at 0.24 g/L in water at 15 °C, while the sodium salt is soluble at >333 g/L in water at 15 °C. Therefore, pH control is very important to the use of this product. Aqueous solutions precipitate as the pH is lowered to 5.¹

References

1. The Merck Index, 12th Ed., Entry# 2946.
2. Arch. Biochem. Biophys., **59**, 213 (1955).
3. Protein Purification Applications: A Practical Approach, Harris, E., and Angal, S., ed., IRL Press (New York, NY: 1990), p. 71.
4. Mahuran, D., et al., A High Recovery Method for Concentrating Microgram Quantities of Protein from Large Volumes of Solution. Anal. Biochem., **129**, 513-516 (1983).

SS,JLH,MWM,JRC,MAM 01/19-1