Sodium deoxycholate

Product Number  D6750
Store at Room Temperature

Product Description
Molecular Formula: C_{24}H_{39}NaO_{4}
Molecular Weight: 414.6
CAS Number: 302-95-4
pK_{a}: 6.58
\lambda_{\text{max}}: 310\text{nm}^{2}
Extinction Coefficient: E^{\text{mM}} = 9.4
Specific Rotation: +55^{\circ} (1 \text{ g/100 ml in ethanol at 20 }^{\circ}\text{C})^{1}

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

Deoxycholic acid has been used in a modified procedure to recover 40-80% of a protein from a 1 \mu g/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 Laboratory Use Only. Not for drug, household or other uses.

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.\(^{3}\)

References
1. The Merck Index, 12th Ed., Entry# 2946.

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