

## Taurocholic acid sodium salt

CAS Number: 145-42-6

Storage Temperature: Room Temperature

### Product Description :

Appearance: White to Off-White powder

Molecular Formula: C<sub>26</sub>H<sub>44</sub>NO<sub>7</sub>Na

Molecular Weight: 537.7

pKa: 1.4

Critical Micelle Concentration (CMC): 3-11 mM

Synonyms: 3 $\alpha$ , 7 $\alpha$ , 12 $\alpha$ -trihydroxy-5 $\beta$ -cholan-24-oic acid N-(2-sulfoethyl)amide,

2-[(3 $\alpha$ , 7 $\alpha$ , 12 $\alpha$ -trihydroxy-24-oxo-5 $\beta$ -cholan-24-yl)amino]ethanesulfonic acid, cholaic acid sodium salt

Sodium taurocholate, the sodium salt of taurocholic acid, is the conjugation product of cholic acid with taurine and the principal constituent of the bile of carnivorous animals. In vivo, cholesterol is converted to trihydroxycoprostanote and subsequently to cholyl CoA, which is then conjugated to the amino group of taurine to form taurocholate. Sodium taurocholate is a known activator of cholesterol esterase. Studies of various lipases incorporate sodium taurocholate as an activator. Cell culture studies that use taurocholate have included the colonization by *Neisseria meningitidis* in cultured human nasopharyngeal mucosae, permeation of bile salt and bile salt:fatty acid mixed micellar systems in CaCo2 cells, and the infection of MDBK and HCT-8 cells by the parasite *Cryptosporidium parvum*.

### Preparation Instructions:

This product is soluble in water (100 mg/ml), yielding a clear, faint yellow solution.

### Storage/Stability

Store the product at room temperature. It should be reevaluated every two years for suitability in user application.

### Precautions and Disclaimer:

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