5-Sulfosalicylic acid dihydrate
Sigma Ultra

Product Number  S 7422
Store at Room Temperature

Product Description
Molecular Formula:  C₇H₆O₆S • 2H₂O
Molecular Weight:  254.2
CAS Number:  5965-83-3
λ<sub>max</sub>: 297 nm
Extinction coefficient:  E<sub>mM</sub> = 2.51 (NH₄OH, pH 10.3)
Synonyms:  2-hydroxy-5-sulfobenzoic acid, 3-carboxy-4-hydroxybenzenesulfonic acid

Trace elemental analyses have been performed on the SigmaUltra 5-sulfosalicylic acid. The Certificate of Analysis provides lot-specific results. SigmaUltra 5-sulfosalicylic acid is for applications which require tight control of elemental content.

5-Sulfosalicylic acid is a reagent that is used as a fixing solution in protein electrophoresis. Industrial applications of this reagent include use as a metal chelating agent, and in the preparation of surface-active agents, organic catalysts, and grease additives.

The use of 5-sulfosalicylic acid in the detection of metals in solutions and in samples derived from the solid state has been reported. A reversed-phase HPLC protocol for the detection of short chain coenzyme A esters from tissue samples has been published. 5-sulfosalicylic acid has been used in protein precipitation of plasma samples before HPLC analysis for mitoxantrone and 6-mercaptopurine in plasma.

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

Preparation Instructions
This product is soluble in water (100 mg/ml), yielding a clear, colorless solution. It is also soluble in alcohol, ether, and other polar solvents.

Storage/Stability
It is advised to keep this product in well-closed containers and protected from light.

References
1. The Merck Index, 12th ed., Entry# 9138.