Ammonium chloride
Cell Culture Tested

Product Number A0171
Store at Room Temperature

Product Description
Molecular Formula: NH₄Cl
Molecular Weight: 53.49
CAS Number: 12125-02-9
Synonyms: ammonium muriate, sal ammoniac, salmiac

This product is cell culture tested and is appropriate for use in cell culture experiments.

Ammonium chloride is a reagent that is used in a variety of industrial and research applications. Industrial uses include electroplating, tinning, and the manufacture of dyes. It is also used as a fluxing agent for the galvanizing of steel, the refinement of zinc, and the coating of sheet iron with zinc.

In biological research, ammonium chloride is often used for the lysis of human red blood cells. Ammonium chloride has been used in the study of basic calcium phosphate crystals in fibroblasts. The use of ammonium chloride in the isolation of proteins from 50S ribosomal subunits of Bacillus stearothermophilus has been described. A study of the nucleic acid binding protein HSP15 that uses ammonium chloride to investigate the effect of different salt conditions on HSP15 binding to 50S subunits has been published. A differential pulse voltammetry procedure for the detection of copper, lead, cadmium, and nickel in environmental matrices that uses ammonia-ammonium chloride buffer has been reported.

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). It is also soluble in methanol and ethanol. The pH of various percentage solutions of NH₄Cl has been reported:

1% solution = pH 5.5
3% solution = pH 5.1
10% solution = pH 5.0

References
1. The Merck Index, 12th ed., Entry# 537.

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