

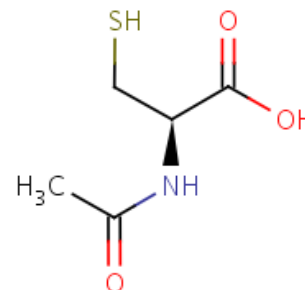
N-acetyl-L-cysteine

INCI Name: Acetylcysteine

CAS Numbers: 616-91-1

Description:

N-acetyl-L-cysteine (abbreviated NAC) also known as acetylcysteine, functions as an anti-oxidant and skin conditioning agent. It is also a pharmaceutical drug and nutritional supplement used primarily as a mucolytic agent and in the management of acetaminophen overdose. As a dietary supplement it claims antioxidant and liver protecting effects. It is used as a cough medicine because it breaks disulfide bonds in mucus and liquefies it.



Technical Data:

Items:	Specification:
Description	White crystals or crystalline powder
Identification	Infrared absorption spectrum
Specific Rotation	+21.3° to 27.0°
State of solution	≥98.0%
Chloride	≤0.04%
Ammonium	≤0.02%
Sulfate	≤0.030%
Iron	≤20ppm
Heavy Metals	≤10ppm
Lead	≤3ppm
Mercury	≤0.6ppm
Cadmium	≤1ppm
Arsenic	≤1ppm
Other amino acids	Chromatographically not detectable
Loss on Drying	≤0.5%
Residue on ignition	≤0.20%
Assay	98.5% to 101.0%
pH	2.0-2.8
Mesh size	100% pass 20mesh
Total Plate Count	Not more than 1000cfu/g
Yeast & Mold	Not more than 100cfu/g
Coliforms	Negative
E. Coli	Negative
Salmonella	Negative
Stap Aureus	Negative
Bulk Density / Tap Density	Report
Conclusion:	Agree with the specification of AJI92standard.

Applications:

Cosmetically it is used in antifungals, moisturizers, body wash, mascara, and skin repair creams.



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