**Niacinamide**

**Cell Culture Tested**

**Product Code:** TC154

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**Product Description:**

Molecular Weight: 122.12  
Molecular Formula: C₆H₆N₂O  
CAS No.: 98-92-0  
Synonym: Nicotinamide, Nicotinic acid amide, Pyridine-3-carboxylic acid amide, Vitamin B3, Vitamin PP

Niacinamide, also known as nicotinamide, is a water-soluble vitamin belonging to vitamin B group.

Niacinamide acts as a precursor for energy cofactors such as nicotinamide adenine dinucleotide (NAD), nicotinamide adenine dinucleotide phosphate (NADP) and their reduced forms NADH and NADPH. These moieties act as essential coenzymes in ATP production and as substrates for nuclear enzyme poly-ADP-ribose polymerase-1 (PARP-1).

It is one of the several vitamins essential for cell proliferation. It is used as a major component in wide range of cell culture media including classical and serum-free media. Niacinamide is also involved in protecting the cultured cells from carcinogenesis, DNA repair, and genomic instability.

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**Quality Control:**

**Appearance**  
White crystalline powder.

**Solubility**  
Clear colorless solution at 5gm in 100ml of water

**pH of 5% solution in water**  
6.00 - 7.50

**Chloride (Cl)**  
NMT 0.025%

**Sulphate (SO₄)**  
NMT 0.0125%

**Sulphated ash**  
NMT 0.1%

**Heavy metals**  
NMT 0.003%

**Loss on drying**  
NMT 0.5%

**Assay**  
98.50 - 101.50%

**Cell Culture Test**  
Passes

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**Storage and Shelf Life:**

Store at 10-30°C away from bright light.  
Shelf life is 36 months.  
Use before expiry date given on the product label.

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**Disclaimer:**

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