

Specification

Ammonium Molybdate 4-hydrate *BioChemica*

A2246

Solubility:	400 g/L (H ₂ O)
Physical Description:	Solid
Product Code:	A2246
Product Name:	Ammonium Molybdate 4-hydrate <i>BioChemica</i>
Specifications:	<p>Assay (titr.): min. 99 %</p> <p>pH (0.05 M; H₂O; 20°C): 4.0 - 5.5</p> <p>Heavy metals (as Pb): max. 0.001 %</p> <p>Insoluble matter: passes test</p> <p>Chloride: max. 0.001 %</p> <p>Nitrate: max. 0.002 %</p> <p>Phosphate: max. 0.001 %</p> <p>Sulfate: max. 0.005 %</p> <p>Fe: max. 0.001 %</p>
WGK:	1
Storage:	RT
Molecular Formula:	(NH ₄) ₆ Mo ₇ O ₂₄ · 4H ₂ O
M:	1235.86 g/mol
CAS:	12054-85-2
EINECS:	234-722-4
CS:	28417000
Comment	<p>Molybdate is a tyrosine phosphatase inhibitor. Its sodium or ammonium salts are added to the inhibitor cocktails in a working concentration ranging from 1 - 10 mM (e. g. ref. 3). Besides, molybdate is used as a reagent for the demonstration of inorganic phosphate, e. g. released by adenine triphosphatase (1).</p>

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Bibliography

(1)Lowry, O.H. (1957) *Methods Enzymol.* **4**, 366-381Micromethods for the assay of enzymes. (2)Rivera, V.M. *et al.* (1993) *Mol. Cell. Biol.* **13**, 6260-6273A growth factor-induced kinase phosphorylates the serum response factor at a site that regulates its DNA-binding activity. (3)Wu, Y.Y. & Bradshaw, R.A. (1993) *J. Cell Biol.* **121**, 409-422Effect of nerve growth factor and fibroblast growth factor on PC12 cells\; Inhibition by Orthovanadate.