



Europa Bioproducts Ltd

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Arsemate

Item#	Unit Size
A012-10	5 g
A012-12	25 g

Chemical Name: Diethyldithiocarbamic acid, silver salt

CAS: 1470-61-7

Appearance: Yellow powder

Purity: ≥98.0% (Titration)

MW: 256.14, C₅H₁₀AgNS₂

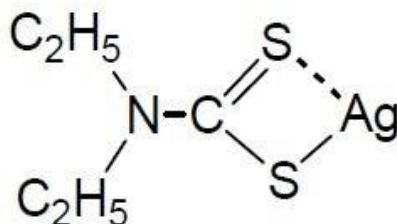
Storage Condition: ambient temperature, protect from light

Shipping Condition: ambient temperature

Product Description

Arsemate is soluble in pyridine and chloroform, but insoluble in water and other organic solvents. For arsenic detection, a 0.5% Arsemate/pyridine solution is used. The sample should be treated with sulfuric acid, 15% potassium iodide, and 40% SnCl₂/HCl solution to convert arsenic to AsH₃. Arsemate reacts with AsH₃ in pyridine and forms red colloidal silver with a maximum wavelength at 520-540 nm. The detection range of arsenic using the Arsemate/pyridine solution is 4-12 ppm. Alternatively, 0.5% Arsemate/chloroform solution with 30 mM triethylamine can be used for the assay. For the colorimetric detection of arsenic, the AsH₃ gas generator is required.

Chemical Structure



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CERTIFICATE NO. 3222