

Methylcobalamin / Hydroxycobalamin

Water-soluble B12 analogue vitamins

Product Description

Methylcobalamin and Hydroxycobalamin are bioactive forms of Vitamin B12 used in nutraceutical and pharmaceutical formulations for neuropathy and anaemia. Available to pharmacopoeia standards.

Certificate of Analysis

HSN Code: 2936.26 CAS Number: Methylcobalamin: 13422-56-5 / Hydroxycobalamin: 1402-51-0

Parameter	Specification	Test Method
Appearance	Dark red crystalline powder	Visual
Assay	96.0–102.0%	UV spectrophotometry
Identification	UV absorption characteristics	UV
Loss on Drying	"d 1 2 . 0 %	USP <731>
pH (1% aqueous)	4.0–6.0	USP <791>
Cobalamin Analogues	"d 7 . 0 %	HPLC
Heavy Metals	"d 2 0 p p m	USP <231>

Physical Properties

Appearance: Dark red crystalline powder

Molecular Formula: Methylcobalamin: $C_{14}H_{18}CoN_6O_6P$ / Hydroxycobalamin: $C_{14}H_{17}CoN_6O_6P$

Molecular Weight: Methylcobalamin: 1344.38 g/mol / Hydroxycobalamin: 1346.36 g/mol

Solubility: Freely soluble in water

Melting Point: >200°C (decomp.)

Packing: 25 kg HDPE drums with inner polyethylene liner; 1 kg, 5 kg aluminium foil pouches

Storage: Store in a cool, dry, well-ventilated area away from light and moisture. Below 25°C.

Safety & Handling

PPE: Gloves, safety goggles, dust mask, lab coat

Hazards:

- Light-sensitive
- Dust may cause mild respiratory irritation