

# BaseBulk

## CERTIFICATE OF ANALYSIS

<b>Product Name:</b>	Mecobalamin (Methylcobalamin)
<b>Batch Number:</b>	M241106B
<b>Date of Manufacture:</b>	2024.11.08
<b>Date of Expiry:</b>	2028.11.07
<b>Certificate Date:</b>	2024.11.24

### Physical & Chemical Characteristics

Analysis Item	Specification	Result
Characters	Dark red crystals or crystalline powder	Complies
Identification (1)	UV: Compare the spectrum with reference — both spectra exhibit similar intensities at same wavelengths	Complies
Identification (2)	Cobalt: requirement	Complies
Color of Solution	The solution is clear and red color	Complies
Size	( $\leq 250\mu\text{m}$ ) $\geq 90\%$	Complies*

### Impurities

Analysis Item	Specification	Result
Any impurity (single)	$\leq 0.5\%$	0.5%
Total impurities	$\leq 2.0\%$	1.3%
Water	$\leq 11.5\%$	$\leq 5.6\%$

### Other Tests

Analysis Item	Specification	Result
Loss on Drying	$\leq 11.5\%$	$< 11.5\%$
Residual Solvent (Acetone)	$\leq 0.5\%$	0.07%
Assay (on the anhydrous basis)	98.5%-101.0%	99.0%
Acetone	$\leq 5000\text{ppm}$	180ppm

**Microbiological Tests**

Analysis Item	Specification	Result
Total Plate Count	$\leq 1000$ CFU/g	15 CFU/g
Total combined yeasts/mould count	$\leq 100$ CFU/g	10CFU/g
E. coli	Absence (/10g)	Complies*
Salmonella	Absence (/10g)	Complies*
Staphylococcus aureus	Absence (/g)	Complies*
Bile-Tolerant Gram-Negative Bacteria	Absence (/g)	Complies*

**Heavy Metals**

Analysis Item	Specification	Result
Lead (Pb)	$\leq 0.5$ ppm	Complies*
Arsenic (As)	$\leq 1.0$ ppm	Complies*
Cadmium (Cd)	$\leq 1.0$ ppm	Complies*
Mercury (Hg)	$\leq 0.1$ ppm	Complies*