

## Certificate of Analysis

### Vitamin B12 certified reference material (CRM), Anstan®.

Product Code:	<b>BS10342.</b>
Description:	<b>Vitamin B12 certified reference material (CRM), Anstan®.</b>
Synonym:	<b>Cyanocobalamin.</b>
Pack:	<b>1 gm.</b>
CAS No.:	<b>68-19-9.</b>
Mol. Formula:	<b>C<sub>63</sub>H<sub>88</sub>CoN<sub>14</sub>O<sub>14</sub>P.</b>
Mol. Weight:	<b>1,355.39 g/mol.</b>
MDL Number:	<b>MFCD00151092.</b>
Melting Point:	<b>&gt;300 °C.</b>
Boiling Point:	<b>&gt;300 °C.</b>
Density:	<b>1.52 g/cm<sup>3</sup>.</b>
Solubility:	<b>Soluble in Chloroform.</b>
Storage:	<b>Store at 2-8°C Refrigerator.</b>
Batch No:	<b>Sample.</b>
Manufacture Date:	<b>Lot specific.</b>
Expiry Date:	<b>5 years.</b>

Characteristics	Specification	Measured Values
Appearance:	Red to Dark red to Dark purple powder to crystal.	<b>Lot specific.</b>
Loss on Drying (105 °C):	≤ 4.0 %.	<b>Lot specific.</b>
Identification by NMR:	Confirms to the Structure.	<b>Lot specific.</b>
Identification by MASS:	Confirms to the Structure.	<b>Lot specific.</b>
Identification by IR:	Confirms to the Structure.	<b>Lot specific.</b>
Purity by HPLC:	≥97%.	<b>Lot specific.</b>

Please Note: - This material is only for laboratory purpose and not for human consumption. This is a computer-generated COA, no stamp or signature is required. This is a sample Certificate of Analysis (COA). Depending on the analytical procedure, method conditions, and the specifications and results may vary.

