



Specification

Concerning Product:	
Article number	13870901APL
Trade name / designation / denomination	Cobamamide, CP
CAS number	13870-90-1
Other names / synonyms	•(2S,3S,4R)-2-(6-aminopurin-9-yl)-5-methanidyloxolane-3,4-diol; cobalt(3+); [(2R,5S)-5-(5,6-dimethyl-1-benzimidazolyl)-4-hydroxy-2-(hydroxymethyl)-3-oxolanyl] 1-[[1-oxo-3-[(2R,3R,4Z,7S,9Z,12S,13S,14Z,17S,18S,19R)-2,13,18-tris(2-amino-2-oxoethyl)-7,12,17-tr; •cobamamide;
EC number	237-627-6
Customs tariff number / CN code / TARIC	29362600
Molecular weight [g / mol]	1579.58176
Formula	C ₇₂ H ₁₀₀ CoN ₁₈ O ₁₇ P

Parameter	Test Method	Specification	Unit
Organoleptic test			
Appearance of solution	JP monograph	The solution is clear and red color	
Appearance		Crystals or powder	
Colour		Dark red	
Physical parameter			
Loss on drying	ChP2015	≤ 10	%
Identity			
Assay	HPLC	Adenosylcobalamin 98,5 – 102,0	%
Identification	ChP2015	HPLC: The retention time of the major peak of the sample solution corresponds to that of the reference solution.	
Identification	ChP2015	The IR spectra of the sample is similar with the reference spectra.	
Identification	ChP2015	UV: the absorption spectrum exhibits maxima at 264nm, 285nm, 305nm and 460nm.	
UV spectroscopy	ChP2015	A _{460 nm} / A _{352 nm} ≥ 0,9	
Impurities			
Related substances	ChP2015	The sum of each impurity peak area is not larger than 1% of the main area of the reference solution.	
Residual Solvents			
Acetone	Inhouse	≤ 0,5	%
Microbiological data			
Total Plate Count	CP2015	≤ 1000	CFU/g
Yeast and Mould	CP2015	≤ 100	CFU/g

Annotation:

Product does not meet the criteria for classification as dangerous in accordance with EU regulation (EC) No 1272/2008 and its modifications, therefore is not subject to the obligation to provide a Material Safety Data Sheet according to EU regulation (EC) No 1907/2006 and its modifications.

Product is free of allergens according to Regulation (EU) No. 1169/2011.
Product is irradiation free according to Directive EC 1992/2/EG and 1169/2011.
Product is GMO free and complies to Regulations (EC) No. 1829/2003 and 1830/2003.
Product is suitable for vegetarian or vegan diets.
Product conforms to PAH regulation EC Nr. 1881/2006.
Product conforms to Pesticide regulation EC Nr. 396/2005.
Product conforms to TSE/BSE regulation EC Nr. 999/2001.

The limits of Extraction Solvents meet Regulation EC No. 2009/32/EG.
Product conforms to Food Safety Regulation EC No. 178/2002.
Product is Kosher and Halal

Supplemental information:

Shelf life: 24 month

Storage conditions: Keep in cool

Packing: Packed in paper-drums and two plastic-bags

Regional origin: CN

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 23. Nov. 2021

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