

Vitamin B12 (Hydroxocobalamin Acetate)

INCI name	Hydroxocobalamin Acetate
Trade name	Vitamin B12
Molecular weight	1388,39
Molecular formula	$C_{64}H_{91}CoN_{13}O_{16}P$
Cas-No.:	22465-48-1
Synonym:	Vitamin B12 acetate
Application	Cosmetics, nutrition supplement
Packaging	tin
Filling quantity	1 00 g/tin 1 kg/tin special packaging and smaller fillings quantity on request
Shelf life	up to 2 years, not opened
Storage conditions	dry and cool avoid direct sunlight and heat



Product Specification

Vitamin B12 (Hydroxocobalamin Acetate)

Test	(Ph.Eur.10,0 house standard)	Specification	Batch HA210303
Characters		dark red crystals or dark red crystalline	conforms
Identification A		UV: absorption maxima at 274±nm, 351±nm and 525±2nm	conforms
		A274nm/A351nm: 0,75-0,83	0,80
		A525nm/A351nm: 0,31-0,35	0,33
Identification B		TLC: the principal spot in the chromatogram obtained with the test solution is similar in position, colour and size to the principal spot in the chromatogram obtained with the reference solution.	conforms
Identification C		acetates: it gives reaction (a) of acetates	conforms
Loss on drying		8 - 12 %	10,7 %
Assay		96 - 102 %	98,2 %
Related substances		total impurities ≤ 5 %	3 %
Acetone		≤ 5000 ppm	325 ppm
The total aerobic microbial count		≤ 1000 cfu/g	< 10 cfu/g
The total combines yeasts/mold count		≤ 100 cfu/g	< 10 cfu/g

