

LOTE: 607/2/3



CERTIFICATE OF ANALYSIS

CYANOCOBALAMINE VITAMIN B12 CRYSTALLINE

F6719

Batch number:

1200742311

Purchase: 1000121575 / October 15, 2012

Delivery: 1080148982

Manufacturing date

November 10, 2012

Expiry date

November 10, 2017

Analytical method

CYANOCOBALAMINE PHARMACEUTIQUE

Storage conditions

Storage: room temperature.

Inspection lot number

6518806

Compliance

This batch is accepted and complies with the specifications.

Tests	Analytical results	Specifications
Identity	Complies	Complies
Infra red spectrum	Complies	Complies
Appearance	Crystalline powder	Crystalline powder or small
		crystals
Coloration	Dark red	Red to purplish red
Appearance of aqueous solution	Standard I	Reference suspension standard 1
(0.050g + 25ml)		maximum
Coloration of aqueous solution	Red	Red
(0.050g + 25ml)		
pH of aqueous solution (0.10g +	5.8	4.2 to 7.0 pH
20ml)		
es on drying	1.1	<= 3.0 %
rseudo cyanocobalamin test	Complies	Complies
Absorbance ratio 361/278 nm	1.84	1.70 to 1.90
Absorbance ratio 361/550 nm	3.26	3.15 to 3.40
Absorbance ratio 277-279/360-362 nm	0.54	0.53 to 0.59
Absorbance ratio 548-552/360-362 nm	0.31	0.29 to 0.32
Absorbance ratio 361/547-559 nm	3.26	3.15 to 3.45
Assay by spectrophotometry (on	99.5	97.0 to 100.5 %
dried basis)		
Related substances (HPLC)	1.3	<= 3.0 %
Acetone (GC)	< 0.0010	<= 0.1000 %
Bacterial endotoxins k0.45 UE/mg	Complies	Complies
Total aerobic microbial count	< 1	<= 100 cfu/g
Yeasts and moulds	< 1	<= 10 cfu/g



November 26, 2012

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Batch number: 1200742311

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Tests	Analytical results	Specifications
Staphylococcus aureus in 10 g	Absence	Absence
seudomonas aeruginosa in 10 g	Absence	Absence
Escherichia coli in 10 g	Absence	Absence
Salmonellae in 10 g	Absence	Absence
Entérobactéries in 10 g	Absence	Absence
Candida Albicans in 1 g	Absence	Absence

This product is non pyrogenic and complies with the current microbiological and US, European, Indian and Japanese pharmacopoeia specifications.

Product manufactured at Saint Aubin lès Elbeuf BP 80125 76410 Saint Aubin lès Elbeuf France

The certificate of analysis has been produced by a validated Laboratory Information Management System and signed electronically the November 26, 2012 at 11:41:45 by Christophe RAUFASTE Technicien AQ Page 02 out of 02