Life Giving Store

TYPICAL ANALYSIS

Typical Certificate of Analysis

Product: Vitamin B1 (Thiamine HCl) Powder – USP Grade

Test	Test method	Typical Result	Limits / specification
Appearance	Visual	**corresponds**	powder
Color	Visual	**white**	almost white, white
Clarity of a solution 5 pc in water	Ph.Eur.	**clear**	clear
Color of a solution 5 pc in water	Ph.Eur.	**corresponds**	not more than Y7 or GY7
pH of a solution 2.5 pc in water	Ph.Eur.	**3.0**	2.7 - 3.3
Identity (test A, C)	Ph.Eur.	**corresponds**	corresponds
Absorption of a solution 10 pc in water at 400 nm	USP	**0.014**	≤ 0.025
Water	Ph.Eur.	**3.5 %**	≤ 5.0 %
Sulphated ash	Ph.Eur.	**<0.1 %**	≤ 0.1 %
Nitrates	USP	**passes test**	passes test
Sulphates	Ph.Eur.	**<=100 ppm**	≤ 300 ppm
Assay (anhydrous)	Ph.Eur.	**100.0 %**	98.5 - 101.0 %
Residual solvents: Ethanol	Ph.Eur.	**corresponds***	≤ 500 ppm
Residual solvents: Cyclohexane	Ph.Eur.	**corresponds***	≤ 50 ppm
Related substances: Specified imp. A	Ph.Eur.	**0.09 %**	≤ 0.15 %
Related substances: Specified imp. B	Ph.Eur.	**0.1 %**	≤ 0.3 %
Related substances: Specified imp. C	Ph.Eur.	**0.02 %**	≤ 0.15 %
Related substances: Unspecified imp. (each)	Ph.Eur.	**0.02 %**	≤ 0.10 %
Related substances: Total impurities	Ph.Eur.	**0.2 %**	≤ 0.5 %
Elemental analysis: Lead	AAS	**corresponds***	≤ 1.0 ppm

Typical analysis.