

## **Technical Datasheet**

Analysis Name: Water-Soluble Vitamins in Vitamin Premixes by HPLC

Method Number: LI-03.703

Scope of Application: Polyvitamin premixes, supplements in a pill form and water

samples.

**Description:** Dissolution of the water-soluble vitamins at room temperature

by ultrasonication. Separation by paired-ion high performance liquid chromatography (HPLC) with a gradient elution, and

detection by UV.

Sample Weight 100 g

Required:

**Analytical Platform: HPLC** 

**Special Information:** Certificate of Analysis or list of ingredients must be provided for

each sample. Form of vitamin must be disclosed in the

specification. Method can't detect nicotinic acid.

<b>Analyte Reported</b>	Alias	Unit of	Limit of	Reproducibility
		Measure	Quantification	
Vitamin B₁ – as	Thiamine	mg/g	0.64	15%
Thiamine	hydrochloride			
hydrochloride				
Vitamin B <sub>1</sub> - as	Thiamine	mg/g	0.62	15%
Thiamine mononitrate	mononitrate			
Vitamin B <sub>1</sub> - as	Thiamine base	mg/g	0.5	15%
Thiamine base				
Vitamin B <sub>2</sub>	Riboflavin	mg/g	0.5	20%
Vitamin B <sub>3</sub> - as	Niacinamide	mg/g	0.5	15
Niacinamide				
Vitamin B <sub>6</sub>	Pyridoxine base	mg/g	0.3	15%
Folic Acid	Vitamin B9	μg/g	80	15%

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