



NQAC

Nestlé Quality Assurance Center
Dublin

Technical Datasheet

Analysis Name: Caffeine By HPLC

Method Number: LI-20.020

Scope of Application: Quantitative determination of caffeine in regular and decaffeinated products by HPLC-UV.

Description: The method consists of: Caffeine is extracted with boiling water at 100°C, and then samples are diluted depending on matrix concentration (regular or decaffeinated). For ready to drink matrixes samples are diluted with water to fit the calibration curve. Preparation is then filtered, and caffeine is separated from other components on a reversed phase HPLC column. Caffeine is quantified by UV detection (274 nm), by comparison with an external standard.

Sample Weight Required: 50 g or unopened original container for liquids

Analytical Platform: HPLC-UV

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
Caffeine	N/A	g/100 g	0.01 g/100 g	± 0.1 g/100g @ <1 g/100g. 15% RSD @ ≥1 g/100g.