



NQAC

Nestlé Quality Assurance Center  
Dublin

## Technical Datasheet

**Analysis Name:**  $\beta$ -Carotene in Vitamin Premix by UV Absorbance

**Method Number:** NQA-00.3006

**Scope of Application:** This method applies to the determination of total  $\beta$ -Carotene in poly-vitamin Premixes or concentrated  $\beta$ -Carotene solutions. It can also be used for encapsulated carotene premixes / raw materials.

**Description:** Extraction of  $\beta$ -Carotene with 0.1% BHT-Cyclohexane and determination by UV absorbance. Enzyme solution is used for the release of encapsulated carotene

**Sample Weight Required:** 50 g

**Method Reference:** UV-visible Spectrophotometry, or HPLC with detection at 445nm for carotene encapsulated in premix containing vitamin B2.

**Analytical Platform:** Certificate of Analysis or estimated levels must be provided for each sample. If carotene is encapsulated information must be disclosed in the specification.

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
$\beta$ -Carotene		$\mu\text{g/g}$	10	15%