



## Technical Datasheet

**Analysis Name:** Determination of Vanillins In Vanilla Extract

**Method Number:** NQA-01.7014

**Scope of Application:** This method is applicable for the determination of Vanillin and several related flavor compounds via reverse phase HPLC at 254nm and 279nm using a photodiode array detector. The compounds determined in this method are Vanillin, Vanillic Acid, Guaiacol, Ethyl Vanillin, Benzaldehyde, p-Hydroxy-Benzoic Acid, and p-Hydroxy-Benzaldehyde which are expressed in mg/Kg.

**Description:** Vanillin extracts are diluted and injected upon a C8 column. Detection occurs at 254 nm and 279nm via a photodiode array detector. Responses are then quantified against known external standards.

**Sample Weight Required:** 50 g

**Method Reference:** AOAC Official Method 990.25 Vanillin, Vanillic Acid, p-Hydroxybenzaldehyde, and p-hydroxybenzoic acid in Vanillic Extract; ch.36.pp.2

**Analytical Platform:** High Performance Liquid Chromatography

**Special Information:** Vanilla extracts

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
Vanillin		mg/kg	20	15%
Benzaldehyde		mg/kg	20	15%
Guaiacol		mg/kg	50	15%
Ethyl Vanillin		mg/kg	20	15%
4-Hydroxybenzaldehyde		mg/kg	10	15%
4-Hydroxybenzoic Acid		mg/kg	10	15%
Vanillic Acid		mg/kg	30	15%