

Technical Datasheet

Analysis Name: Peanut Traces by ELISA

Method Number: NQA-00.8323

Scope of Application: Infant formulas, tannin-containing products (i.e. coffee), nutritional

drinks, finished food products, rinse water, and environmental

swabs.

Description: This method is based on the use of a Veratox commercial peanut

traces detection kit available from Neogen, MI. Peanut proteins are extracted from the sample with a buffered salt solution (PBS) and an extraction additive. Peanut proteins are detected by a sandwich ELISA, using antibodies specific to peanut proteins. The peanut proteins present in the sample will bind to the immobilized capture antibodies. An enzyme-linked detector antibody attaches to the bound peanut protein residue and the addition of a substrate causes a blue coloration to develop when in the presence of the enzyme-linked detector antibody. Addition of stop solution changes

the color from blue to light pink when the peanut antigen concentration is low, to purple/blue when there are detectable

antigen amounts and remains dark blue if the antigen

concentration falls outside the calibration curve. The color intensity

is measured using a spectrophotometer.

Sample Weight 50 g

Required:

Analytical Platform: Microplate Reader

Special Information: Original container needed.

Method reports a quantitative result for testing of food products as described in method scope and reports a qualitative result for

environmental swabs as "detected" or "not detected".

Results are expressed as total peanut. To express results as protein, multiply the total peanut result by 0.258. Peanuts contain

25.8% protein. *

Kit used, Neogen Veratox Peanut (700002569), has no identified

cross-reactivity or interference.

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*Source: USDA National Nutrient Database for Standard Reference Release 28, # 16087 - Peanut, all types, raw.

Analyte Reported	Alias	Unit of Measure	Limit of Quantification/ Theoretical Limit of Detection	Reproducibility
Total Peanut	Peanut	mg/kg	2.5	15%
Total Peanut	Peanut Swabs	μg	0.5	N/A