

# Technical Datasheet

**Analysis Name:** Almond Traces by ELISA

**Method Number:** NQA-00.8328

**Scope of Application:** Cookies, crackers, chocolate bars, ice cream, beverages, cereals, and environmental swabs

**Description:** This method is based on the use of a Veratox commercial almond traces detection kit available from Neogen, MI. Almond proteins are extracted from the sample with a buffered salt solution (PBS) and an extraction additive. Almond proteins are detected by a sandwich ELISA, using antibodies specific to almond proteins. The almond proteins present in the sample will bind to the immobilized capture antibodies. An enzyme-linked detector antibody attaches to the bound almond 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 almond 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 Required:** 50 g

**Analytical Platform:** Plate reader spectrophotometer

**Special information:** Original container needed.

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
Almond	Almond	mg/kg	2.5	15%
Almond	Almond_Swabs	ng/mL	100	N/A