

Technical Datasheet

Analysis Name: Soy Traces by ELISA

Method Number: NQA-00.8324

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 soy traces detection kit available from Neogen, MI. Soy proteins are extracted from the sample with a buffered salt solution (PBS) and an extraction additive. Soy proteins are detected by a sandwich ELISA, using antibodies specific to soy proteins. The soy proteins present in the sample will bind to the immobilized capture antibodies. An enzyme-linked detector antibody attaches to the bound soy 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 soy 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 Grams

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” based on a LoD of 100 ng/mL.

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
Soy Protein	Soy	mg/kg	1.2	15%
Soy Protein	Soy Swabs	ng/mL	100	N/A