

MonoTrace® Food Allergen ELISAs

Quantitative results in just 30 minutes!



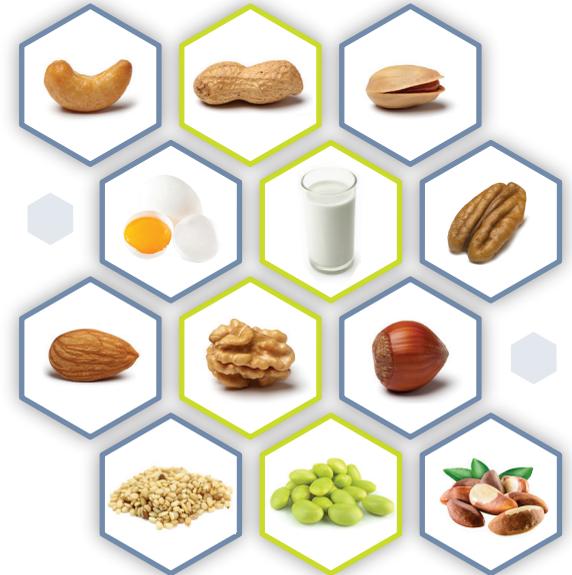
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BioFront Technologies introduces the first comprehensive line of monoclonal antibody-based enzyme-linked immuno-sorbent assay (ELISA) kits designed to accurately detect and quantify trace amounts food allergens in complex food matrices and surface rinses. Both approaches rapidly validate removal of potentially allergenic protein residues on food-contact surfaces.

MonoTrace® ELISAs provide an unmatched union of specificity and sensitivity in food safety allergen testing by incorporating precisely defined sets of monoclonal antibodies optimized to detect major allergens while minimizing cross-reactivity and food matrix interference.

MonoTrace ELISA Kits available in 48- and 96-well format:

MonoTrace Tree Nut ELISAs	Target	Limit of Detection
MonoTrace Almond ELISA	Almond	< 1 ppm
MonoTrace Brazil Nut ELISA	Brazil Nut	< 1 ppm
MonoTrace Cashew ELISA	Cashew	< 1 ppm
MonoTrace Coconut ELISA	Coconut	< 1 ppm
MonoTrace Hazelnut ELISA	Hazelnut	< 1 ppm
MonoTrace Macadamia Nut ELISA	Macadamia Nut	< 1 ppm
MonoTrace Pecan ELISA	Pecan	< 1 ppm
MonoTrace Pine Nut ELISA	Pine Nut	< 1 ppm
MonoTrace Pistachio ELISA	Pistachio	< 1 ppm
MonoTrace Walnut ELISA	Walnut	< 1 ppm
MonoTrace Legume ELISAs	Target	Limit of Detection
MonoTrace Lupin ELISA	Lupin	< 1 ppm
MonoTrace Peanut ELISA	Peanut	< 1 ppm
MonoTrace Soy ELISA	Soy	< 1 ppm
MonoTrace Egg ELISAs	Target	Limit of Detection
MonoTrace Egg (OA) ELISA	Ovalbumin	< 1 ppm
MonoTrace Egg (OM) ELISA	Ovamucoid	< 1 ppm
MonoTrace Milk ELISAs	Target	Limit of Detection
MonoTrace Milk ELISA	Casein	< 1 ppm
MonoTrace Seed ELISAs	Target	Limit of Detection
MonoTrace Buckwheat ELISA	Buckwheat	< 1 ppm
MonoTrace Mustard ELISA	Mustard	< 1 ppm
MonoTrace Sesame ELISA	Sesame	< 1 ppm
MonoTrace Shellfish/Fish ELISAs	Target	Limit of Detection
MonoTrace Crustacea ELISA	Tropomyosin	< 1 ppm
MonoTrace Gluten ELISAs	Target	Limit of Detection
MonoTrace Gluten ELISA	Gliadin	< 2 ppm



Experience the MonoTrace Advantage

- Target major food allergens
- Robust assay with high specificity to target allergen
- Quantitative results in 30 minutes
- Wide quantitative range (e.g. 1-40 ppm)
- Sensitivity at or below 1 ppm
- Uniform extraction for multiple allergens
- Reduce food matrix interference



MonoTrace® Food Allergen ELISA Test Kit Procedure:

*Please allow kit to warm to room temperature and refer to instruction manual prior to use.



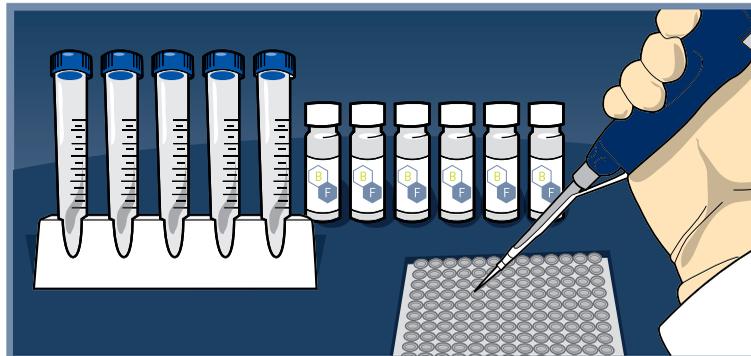
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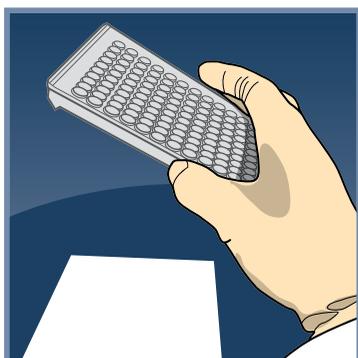
Prepare appropriate amount of diluted Extraction Buffer (ExB or MGEB), Sample Diluent (SD), and Wash Buffer (WB).



Extract samples using diluted ExB or MGEB (gluten only) extraction buffer and dilute in SD according to user manual.



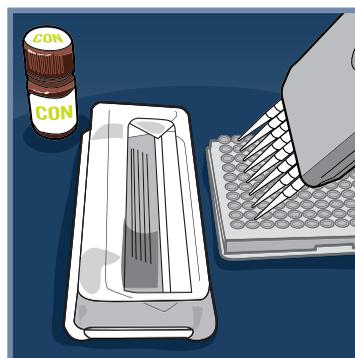
Add 200 µl of each ready-to-use standard and prepared samples to monoclonal antibody coated wells and incubate for **10 minutes**.



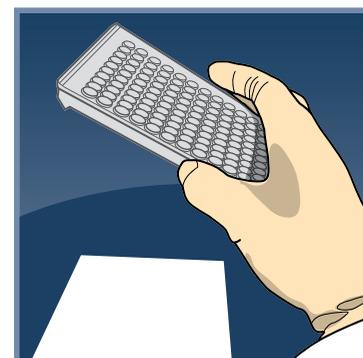
Empty wells in sink and tap dry on paper towels.



Add 200 µl of WB to each well with multichannel pipette or fill each well with squirt bottle. Empty and tap dry as in previous step. Repeat 3X.



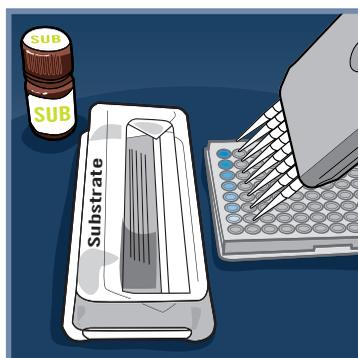
Add 100 µl of HRP-conjugated monoclonal antibody (CON) to each well and incubate for **10 minutes**.



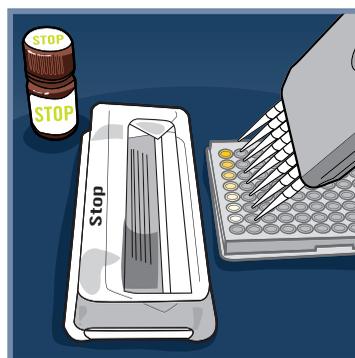
Empty wells in sink and tap dry on paper towels.



Add 200 µl of WB to each well, empty and tap dry as in previous step. Repeat 3X.



Add 100 µl of substrate to each well, cover from light and incubate for **10 minutes**.



Add 100 µl of HRP-quench solution (STOP) to each well.



Read plate within a microplate reader at 450 nm with a differential filter setting of 630 nm.

Each kit includes: Ready-to-use standards, monoclonal antibody-coated microwell plate with removable strips, proprietary extraction (ExB or MGEB) and sample dilution (SD) buffers, wash buffer (WB), Horse Radish Peroxidase (HRP)-conjugated detection monoclonal antibody (CON), highly sensitive substrate (SUB), and stop solution (STOP).