

E coli O157 ELISA Kit | O157 elisa kit

E coli O157 ELISA Kit

CATALOG #
AAA44700

REACTIVITY
E coli

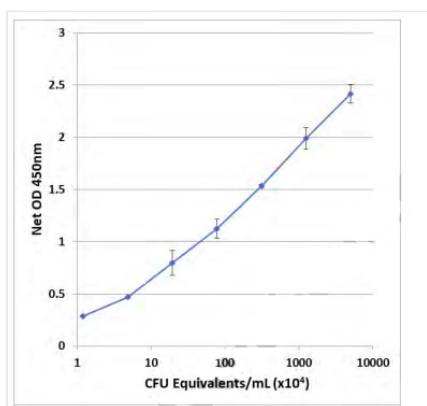
PRODUCT SYNONYMS

O157; E coli O157 ELISA Kit; O157 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	E coli
Detection Method	Colorimetric

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for O157 elisa kit

Background: E. coli is one of the many groups of bacteria that live in the intestines of healthy humans and most warm-blooded animals. E. coli's serotyping is based on the flagellar (H) and polysaccharide (O) antigens. Shiga toxin-producing E.coli strains are major foodborne pathogens and have caused a large number of human illnesses. E.coli O157:H7 is the most well-known serotype and it can cause diarrhea, hemorrhagic colitis, and in more severe cases hemolytic uremic syndrome. Most E.coli O157:H7 infection outbreaks have been linked to the consumption of ground beef. The E. coli O157 ELISA Kit is an enzyme immunoassay developed for detection and quantitation of the E. coli O157. The ELISA antibodies specifically recognize the E.coli O157 strain, will not react with other E. coli strains with different O antigens and other types of bacteria such as Shigella sonnei, Pseudomonas aeruginosa and Salmonella flexneri. The ELISA kit has a detection sensitivity limit of 1.2×10^4 CFU equivalents/mL E. coli O157. Each kit provides sufficient reagents to perform up to 96 assays including standard curve and food test samples.

Principle of the Assay: An anti-E.coli O157 monoclonal antibody is adsorbed onto a microtiter plate. E.coli O157 present in the pre-enriched sample or standard binds to the antibody adsorbed on the plate; an FITC-conjugated anti-E.coli O157 monoclonal antibody is added and binds to the E.coli O157 captured by the first antibody. Following incubation and wash steps, a HRP-conjugated mouse anti-FITC antibody is added and binds to the FITC conjugated anti-E.coli O157 monoclonal antibody. Unbound HRP-conjugated mouse anti-FITC antibody is removed during a wash step, and a substrate solution reactive with HRP is added to the wells. A colored product is formed in proportion to the amount of E.coli O157 present in the sample. The reaction is terminated by addition of Stop Solution and the absorbance is measured at 450 nm. A standard curve is prepared from the provided heat killed E.coli O157 standard and the sample E.coli O157 amount is then determined.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/e-coli-elisa-kits/o157/44700>