

## Listeria monocytogenes p60 ELISA Kit

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CATALOG #  
**AAA44701**

REACTIVITY  
**Listeria**

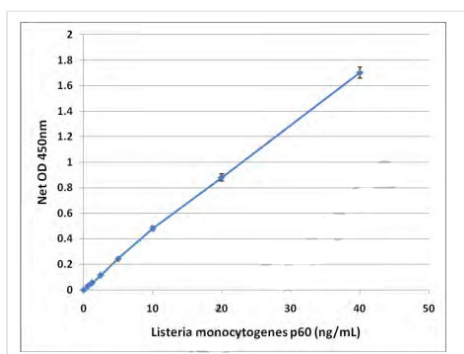
### PRODUCT SYNONYMS

Listeria monocytogenes p60; Listeria monocytogenes p60 ELISA Kit; Listeria monocytogenes p60 elisa kit

### PRODUCT SPECIFICATIONS

|                  |              |
|------------------|--------------|
| Reactivity       | Listeria     |
| Detection Method | Colorimetric |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| Related Product Information for Listeria monocytogenes p60 elisa kit | <p>Background: Listeriosis is a serious infection caused by the germ <i>Listeria monocytogenes</i>. People usually become ill with listeriosis after eating contaminated food. The disease primarily affects pregnant women, newborns, older adults, and people with weakened immune systems. The initial internalization of <i>Listeria monocytogenes</i> in the mammalian cells occurs through the surface proteins internalin (InlA and InlB). However, the pore-forming protein listeriolysin O (LLO) is the primary virulence factor of <i>Listeria monocytogenes</i>, as it helps the bacteria to escape phagosome of host cells and further multiplication inside the host cytoplasm. The p60 protein encoded by the <i>iap</i> (invasion-associated protein) gene is expressed on the cell surface, but it is mainly secreted in large quantities in the culture supernatant of <i>Listeria monocytogenes</i>. This makes the p60 protein an ideal indicator protein for the detection of <i>Listeria monocytogenes</i> from contaminated foods. The <i>Listeria monocytogenes</i> p60 ELISA Kit is an enzyme immunoassay developed for the detection and quantitation of the <i>Listeria monocytogenes</i> p60 protein. The ELISA monoclonal antibodies specifically recognize the p60 protein secreted from <i>Listeria monocytogenes</i> and will not react with other food borne bacteria such as <i>E. coli</i> O157, <i>Salmonella</i>, and <i>Shigella</i>. The ELISA kit has a detection sensitivity limit of 625 pg/mL <i>Listeria monocytogenes</i> p60. Each kit provides sufficient reagents to perform up to 96 assays including standard curve and food test samples.</p> <p>Principle of the Assay: An anti-<i>Listeria monocytogenes</i> p60 monoclonal antibody is adsorbed onto a microtiter plate. <i>Listeria monocytogenes</i> p60 present in the pre-enriched sample or standard binds to the antibody adsorbed on the plate; an FITC-conjugated anti-<i>Listeria monocytogenes</i> p60 monoclonal antibody is added and binds to the <i>Listeria monocytogenes</i> p60 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-<i>Listeria monocytogenes</i> p60 monoclonal antibody. Unbound HRP-conjugated mouse anti-FITC antibody is removed during a wash step, and Substrate Solution reactive with HRP is added to the wells. A colored product is formed in proportion to the amount of <i>Listeria monocytogenes</i> p60 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 recombinant <i>Listeria monocytogenes</i> p60 standard and the sample <i>Listeria monocytogenes</i> p60 amount is then determined.</p> |
| Product Categories/Family for Listeria monocytogenes p60 elisa kit   | Pathogen and Toxin Assays; Bacterial Detection Assays; <a href="#">Listeria monocytogenes p60 ELISA Kit</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**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.

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