



Listeria Test
Human Anti-LLO IgG Immunoassay

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Human listeriosis is caused by the ubiquitous distributed bacterium *Listeria monocytogenes* and is among the most important causes of death from food-borne infections in industrialized countries.

Symptoms vary, ranging from mild flu-like symptoms and diarrhea to life threatening infections characterized by septicaemia and meningoenzephalitis.

The disease affects primarily pregnant women, newborns, older adults and people with weakened immune system.

In pregnant women the infection can spread to the foetus, which may either be born severely ill or die in the uterus, resulting in abortion.

- 2,536 confirmed cases of human listeriosis in 2016 and 247 deaths reported in the EU (+17% compared with 2014).
- 1,600 illnesses and 260 deaths due to listeriosis occur annually in the United States.

Why choose Human ListeriaTest?

Actually, human listeria infections are diagnosed using commercial agglutination or complement fixation tests that detect flagellar and membrane antigens common for pathogenic and not pathogenic *Listeria* strains, and sometimes common for other gram-positive bacteria allowing very low specificity.

ListeriaTest is an ELISA assay for the rapid detection of anti-Listeriolysin O (LLO) antibodies in human serum and plasma. LLO is a specific toxin recognized as the major determinant of the humoral response against *Listeria monocytogenes* in animals and human.



Benefits of Human ListeriaTest include:

Specificity Listeriolysin O is exclusively produced by *Listeria monocytogenes*

Confidence Clear and reproducible results, independent of operator expertise

Reliability Automatable test and analysis without the need for expert skills

Ease of use Minimal hands-on time

Speed High capacity load, up to 44 samples per 96-well plate in less than 3 hours

Convenience All reagents are ready to use providing consistency, stability and long shelf-life

Support Keep your operation running smoothly with a prompt and comprehensive assistance



Clinical validation

- Diagnostic sensitivity: 86 %
- Diagnostic specificity: 100 %

Demonstrated by comparison with reference culture method



Workflow



20 minutes

2 hours

Serum or plasma collection

Performance of the ELISA analysis (in automatic or manual mode)

Reading of results on a microplate reader

Total analysis time: less than 3 hours

Ordering information

| Code | Product | Size |
|---------|---------------|--------------------|
| AKE0007 | Listeria Test | 96 tests / 1 plate |

Companion products

| Code | Product | Size |
|---------|--|--------------------|
| AKE0006 | Listeria Sheep Test | 96 tests / 1 plate |
| REP0006 | Recombinant Listeriolysin - O (LLO) | 50µg |
| REP0007 | Recombinant Listeriolysin - O (LLO) | 100µg |
| REP0022 | Recombinant Listeriolysin - O pest MINUS | 100µg |
| ANT0006 | Rabbit Anti - LLO | 200µl |
| ANT0016 | Rabbit Anti - LLO affinity purified | 200µl |

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