



ANALYSIS OF ENDOTOXIN

Detection limit ≥ 0.005 endotoxin units/mL (EU/mL)

Background

Endotoxin are toxic substances that can be released from both living and dead gram-negative bacteria. At elevated levels of endotoxin, e.g. in respiratory air or in medications, exposure can be life-threatening. Therefore, it is important to check endotoxin content in injection solutions, dialysis fluids, cell media, protein solutions, water, air, cutting fluids, etc.

Method

The analysis principle is based on a coagulation system, so-called LAL (Limulus amoebocyte lysate) from the blood cells of the horseshoe crab (*Limulus polyphemus*), which are activated by endotoxin. A kinetic chromogenic test is used for the quantitative determination of endotoxin. The analysis is performed according to the European and American pharmacopoeias, Ph Eur 2.6.14 Method D respectively USP-NF <85>. The analyses will be run with Charles River reagents on a BIOTEK ELx808IU under the control of EndoScan-V™, v6. EndoScan is a validated endotoxin detection and measuring software used to generate quantitative LAL test data.

Analysis

Micans offers endotoxin analysis within a large detection area, from traces of endotoxin in highly clean liquids to high levels in industrial process water, etc. Our method of analysis is accredited by Swedac. We also analyze solid materials by agreement.

Our offer

Micans is happy to advise on sampling, validation of test vessels and we can also help with interpretation of analytical results. Test results are normally given within one week of the test arriving at laboratory, if urgent, we can deliver test results no later than the day after the arrival of the sample.

Read more on our website: micans.se/endotoxin

Interested? Contact us: +46 31 3383230, analys@micans.se



Microbial Analytics Sweden AB

We are an independent consulting laboratory with personal contacts and good service. We offer laboratory services, problem solving and advice within microbiological issues. The management system for the laboratory is accredited by Swedac according to ISO 17025: 2017. *Read more about our management system here: micans.se/quality-and-environment.*

We have an advanced and adaptable analysis laboratory located in Mölnlycke, just outside Gothenburg, Sweden.

What's unique about Micans is a combination of practical and theoretical microbiological and chemical competence. Our customers have full transparency and opportunity for communication at all stages, from sampling to reporting. *With us the customer always comes first.*



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