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PlasmoTest™

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Mycoplasma Detection Right in Your Incubator

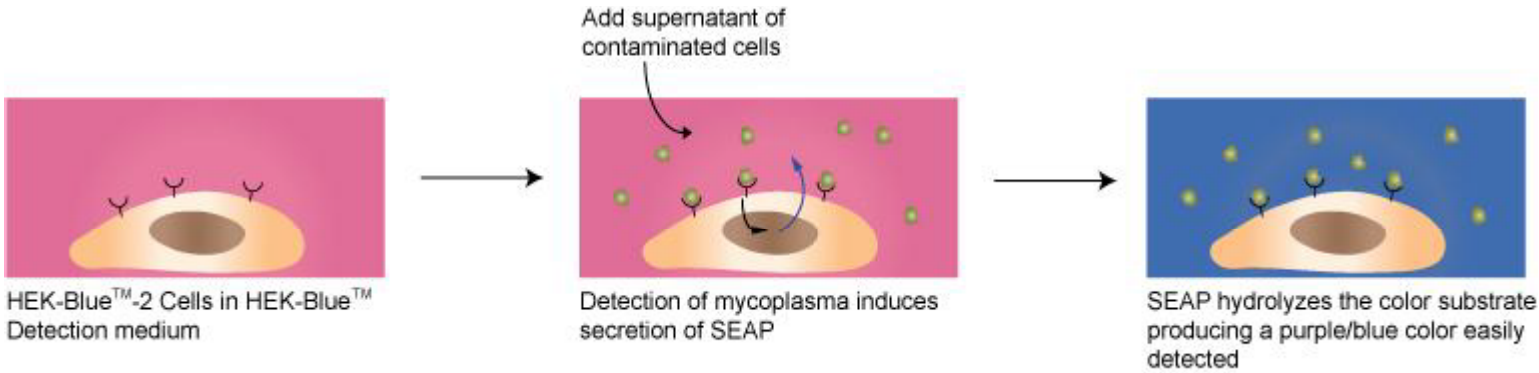
PlasmoTest™ provides a **simple**, **rapid** and **reliable** assay for the visual detection of mycoplasma contamination in cell cultures.
This assay is the first to utilize cells to signal the presence of mycoplasma.

Benefits

• **Simple** - Requires only basic cell culture knowledge. No need for specific lab equipment. Results are easily determined with the naked eye or quantified with a spectrophotometer.
• **Rapid** - Hands-on time less than 1 hour. Gives results after overnight incubation.
• **Versatile** - Detects all *Mycoplasma* and *Acholeplasma* species known to infect cell cultures, as well as other cell culture contaminants such as bacteria.
• **Sensitive** - Detects 5.10^2-5.10^5 cfu/ml mycoplasmas. **No false positive**: a positive result indicates the presence of a cell culture contaminant.
• **Complete** - Contains the Mycoplasma sensor cells and all the reagents needed to perform the assay, including positive and negative controls. Up to 500 samples can be tested with the kit. To perform further assays, only the reagents need to be reordered.

PlasmoTest™ features two major constituents: the **Mycoplasma sensor cells** and the

HEK-Blue™ Detection medium.
The Mycoplasma sensor cells detect the presence of mycoplasmas leading to a color change of the HEK-Blue™ Detection medium. The Mycoplasma sensor cells recognize mycoplasmas through Toll-Like Receptor 2 (TLR2), a pathogen recognition receptor. In the presence of mycoplasmas, TLR2 initiates a signaling cascade leading to the activation of NF-κB and other transcription factors. These transcription factors induce the secretion of SEAP (secreted embryonic alkaline phosphatase) in the supernatant which is readily detected by the purple/blue coloration of the HEK-Blue™ Detection medium.



PlasmoTest™ Principle