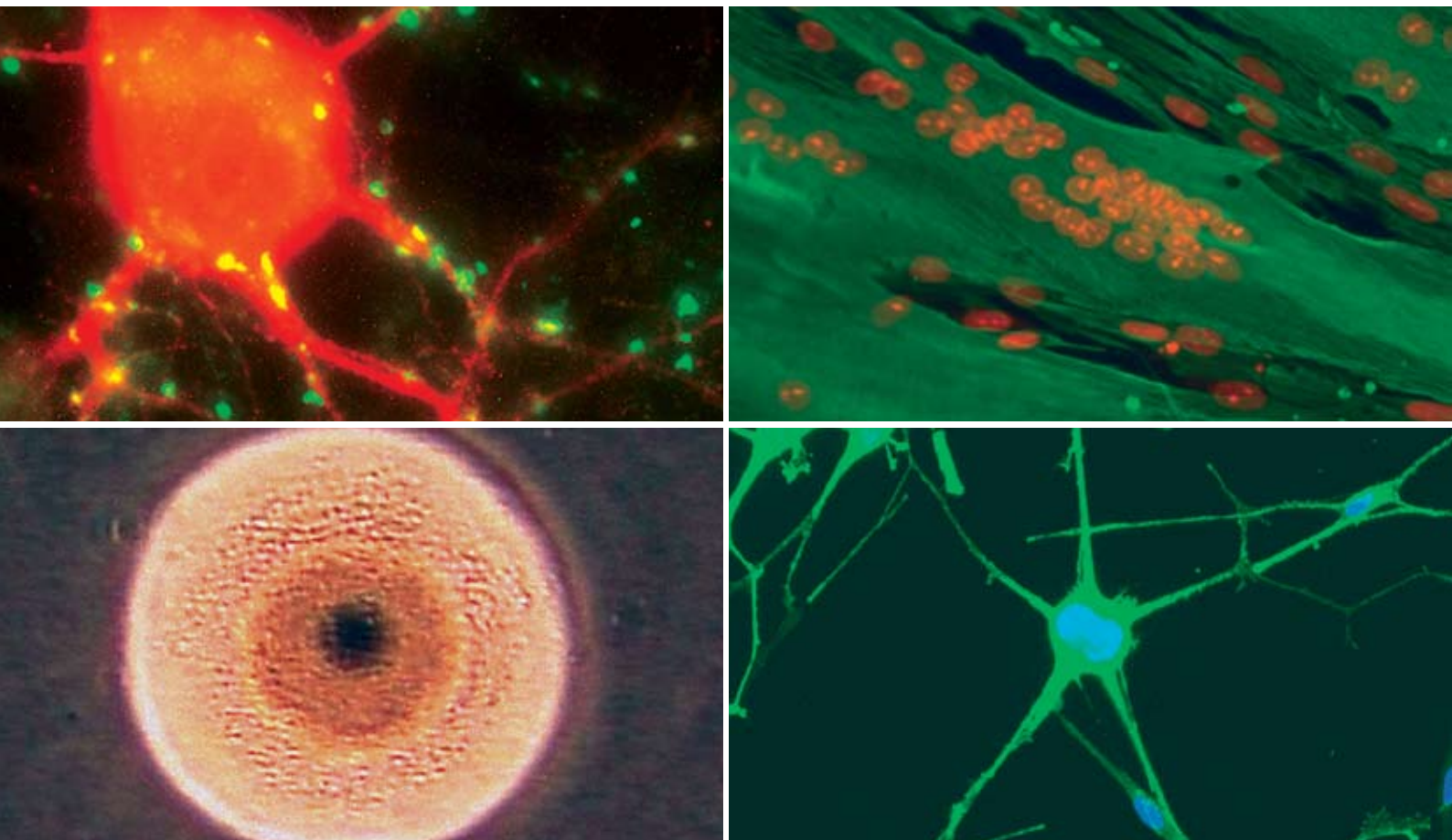


MycoAlert® Mycoplasma Detection Kit



Have you checked your cells today?

What are Mycoplasma?

- The smallest free-living, self-replicating organisms
- Simple prokaryocytes, lacking a rigid cell wall, they range in size from 0.2 μm -0.8 μm
- Mycoplasma have limited biosynthetic capabilities, rely on their hosts for nutrients, and are usually attached to the external surface of the cell membrane
- Over 180 recognized species

What is the easiest way to detect Mycoplasma?

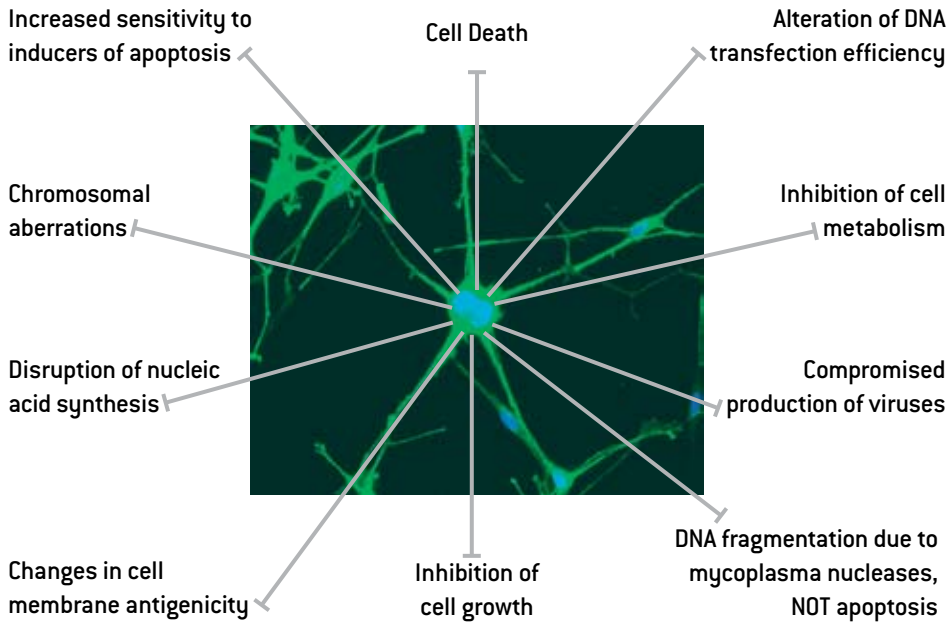
The MycoAlert® Mycoplasma Detection Kit:

- Detects mycoplasma infection in 20 minutes
- Detects the presence of mycoplasmal enzymes
- Uses the proven, sensitive luminescent assay of ATP

Simple four step procedure:

- 1) Add MycoAlert® Reagent to 100 μl of cell culture supernatant
- 2) Incubate 5 minutes and measure luminescence
- 3) Add MycoAlert® Substrate and incubate 10 minutes
- 4) Measure luminescence and calculate ratio

How does a Mycoplasma infection affect your cells?



How insidious are Mycoplasma?

Mycoplasma are the single biggest problem in the culture of continuous cell lines.

- Between 5 and 35% of cell cultures in current use are infected with mycoplasma
- 41% of contaminants reported in one study were of human origin
- Mycoplasma infections are often "invisible" - they do not cause changes in turbidity or pH
- Mycoplasma are not visible under microscopy, even at very high concentrations >10⁷ cfu/ml
- Most routine antibiotics used in cell culture are ineffective against mycoplasma
- They are not routinely removed by filtration
- 95% of cell contaminations are due to six species of mycoplasma

Typical routes of infection

- Cross contamination from untested infected cells
- Aerosols created during pipetting
- Using the same bottle of medium for different cell types
- Handling more than one cell line in the hood at one time
- Contaminated materials
- Direct infection from the researcher

Ordering Information

Description	Catalog #	Size
MycoAlert® Mycoplasma Detection Kit	LT07-118	10 Tests
	LT07-218	25 Tests
	LT07-418	50 Tests
	LT07-318	100 Tests
MycoAlert® Assay Control Set	LT07-518	10 Tests

Contact Information



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MycoZap™ Mycoplasma Elimination Reagent

When cell lines are just too precious



Reports are that 5% - 35% of all cells in continuous culture are contaminated with mycoplasma. A cell line infection can affect every known process in the cell and can seriously impact the reliability, reproducibility and consistency of results. Additionally, mycoplasma infections can spread easily within the culture environment. To monitor for such infections, regular testing of cell lines should be performed using Lonza's MycoAlert® Mycoplasma Detection Kit. Where contamination has occurred, and the sample absolutely cannot be discarded, the MycoZap™ Mycoplasma Elimination Reagent has been optimized to eliminate mycoplasma with minimal toxic effects on the cells.

MycoZap™ Mycoplasma Elimination Reagent is:

- **Easy** – simply add the reagent to your culture media
- **Universal** – MycoZap™ Reagent can be used to eradicate Mollicutes, including *Mycoplasma*, *Acholeplasma*, *Spiroplasma* and *Entomoplasma* species in cell cultures
- **Thorough** – the combination of antibiotic and antimetabolic agents ensure total removal of the contamination
- **Complete** – contains all the required reagents

