



**Food Science
Department**

Disclosure 1020

Accurate Live Salmonella Test

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Description:

This invention is a new set of DNA primers that allows scientists to test for live Salmonella. The unique primers, when combined with certain DNA amplification techniques, make many copies of a particular piece of DNA found in Salmonella so that various tests can detect the bacteria in very small samples of material. Chemicals are added to distinguish between living and dead cells, further increasing accuracy by making sure only living cells are copied. This is critical for early detection and prevention of Salmonella contamination. Complex, expensive equipment is not required to execute this process.

Advantages:

- Very accurate and sensitive
- Very fast
- Specific for live cells

Commercial Uses:

- Salmonella detection in food
- Rapid detection kits

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