1. General Description

This prepared plated agar media is designed to detect Salmonella easily distinguished from other types such as *Citrobacter*, *Escherichia coli*, *Enterobacter* or *Klebsiella*. When the inoculated media plate is incubated, Salmonella forms black colonies surrounded by red color substrate. Other cell types form transparent colonies surrounded by green color substrate. The growth of *Citrobacter* is suppressed as possible so that it is not possible to detect colonies even after 24-hour of incubation.

2. Detection Procedure (spread-plate for 0.1ml sample or streak-plate)

2-1 Take out media plates out from sleeve bag.

2-2 Prepare a spread-plate and/or streak-plate inoculation of each test culture.

2-3 Incubate the plates at 40 degrees C temperature for 24 hours.

When MicroBio system is used, fully automated rapid detection and precise colony counts can be achieved.

3. Preservation

For preservation, keep and store the media in dark place at room temperature.

http://www.microbio.co.jp
4. Detection Examples (MicroBio system Data)

4-1  0.1ml Sample  Spread-plate: *Salmonella typhimurium* (ATCC14028) on PPM001 media

[MicroBio system Data (11 hour-detection)  at 40 degrees C Incubation]

4-2  0.1ml Sample  Spread-plate: *Salmonella enteritidis* (ATCC13076) on PPM001 media

MicroBio system Data (16 hour-detection)  at 40 degrees C Incubation]
4-3  0.1ml Sample  Spread-plate: *Klebsiella pneumoniae* (ATCC33495) on PPM001 media
[MicroBio system Data (11 hour-detection)  at 40 degrees C Incubation]

4-4  0.1ml Sample  Streak-plate: *Salmonella typhimurium* (ATCC14028) on PPM001 media
[MicroBio system Data (12 hour-detection)  at 40 degrees C Incubation]
4-5 0.1ml Sample  Streak-plate: *Salmonella enteritidis* (ATCC13076) on PPM001 media
[MicroBio system Data (13 hour detection) at 40 degrees C Incubation]

4-6 0.1ml Sample  Streak-plate: *Klebshiella pneumoniae* (ATCC33495) on PPM001 media
[MicroBio system Data (11 hour detection) at 40 degrees C Incubation]
Reference) Growth suppression effect on *C. freundii*

The graphs below show the growth characteristic of *C. freundii*. Using this Salmonella agar media (PPM001), the growth was suppressed and no colony of *C. freundii* was observed even after 24 hours of incubation. Using a Standard Plate Count agar media, 186 cfu was detected in the same 0.1ml sample.

0.1ml Sample Spread-plate: *Citrobacter freundii* (NBRC12681) on PPM001 media

[MicroBio system Data (No colonies even after 24 hour of incubation) at 40 degrees C]

0.1ml Sample Spread-plate: *Citrobacter freundii* (NBRC12681) on Standard Plate Count media

[MicroBio system Data (186 cfu detected) at 35 degrees C Incubation]