

How to use Lactobacillus Agar Media (Dehydrated)

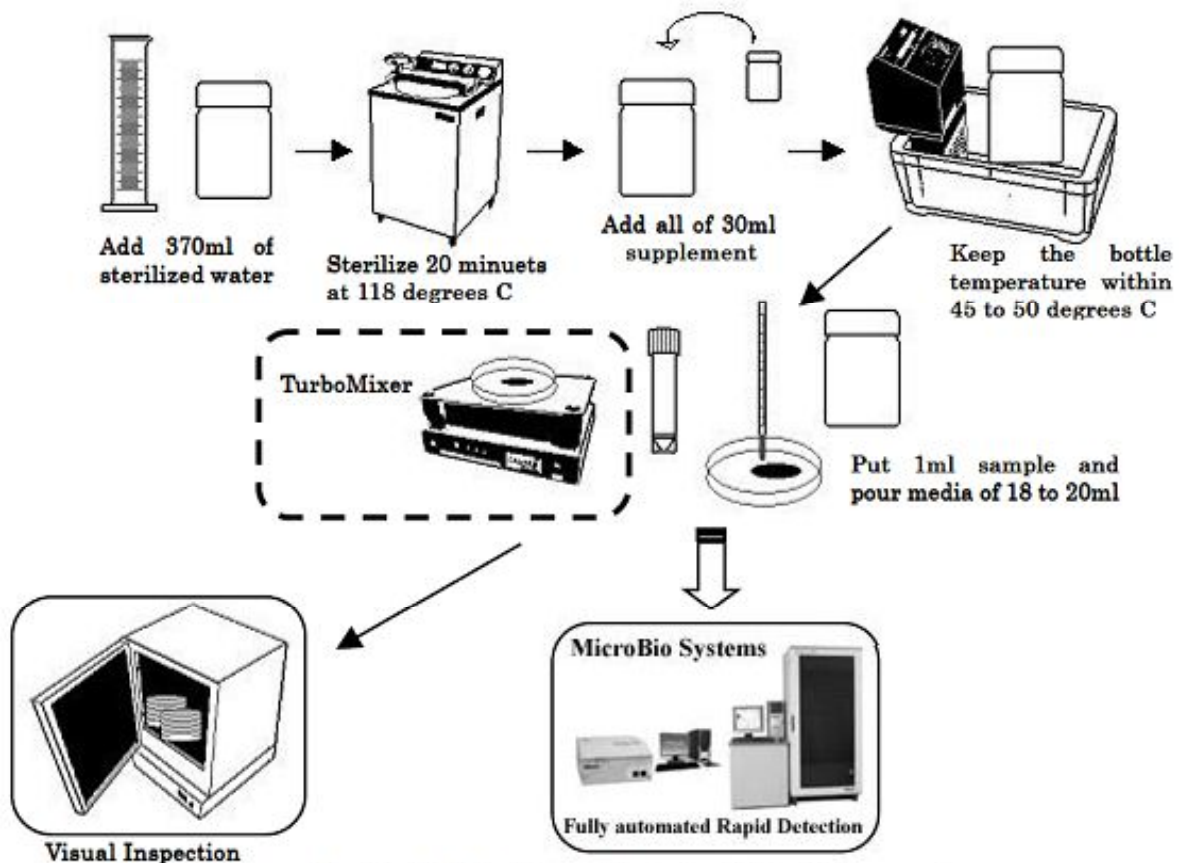
MicroBio Corporation

1. General Description

This dehydrated material for Lactobacillus agar media is designed to detect Lactobacillus while suppressing the growth of other cell types, especially the growth of Yeast.

2. Detection Procedure (poured-plate for 1ml sample)

- 2-1 Open the cap of DCM003 bottle and add 370ml of sterilized water to it. Close the cap, shake the bottle and mix the dehydrated material well.
- 2-2 Loosen the cap of DCM003 bottle slightly and place the bottle into an autoclave. Sterilize it for 20 minutes, under the condition of 118 degrees C temperature.
- 2-3 After cooling the bottle down to the temperature lower than 60 degrees C, add all of 30ml supplement into the bottle and mix it gently.
- 2-4 Keep the bottle temperature within 45 to 50 degrees C. Put 1ml sample into a media plate, pour 18 to 20ml of this media from the bottle and mix it. Cool down the plate and solidify the media. When TurboMixer is used, sample is mixed to agar media well.
- 2-5 Incubate the plate at the temperature of 31 or 35 degrees C. When MicroBio system is used, fully automated rapid detection and precise colony counts can be achieved.



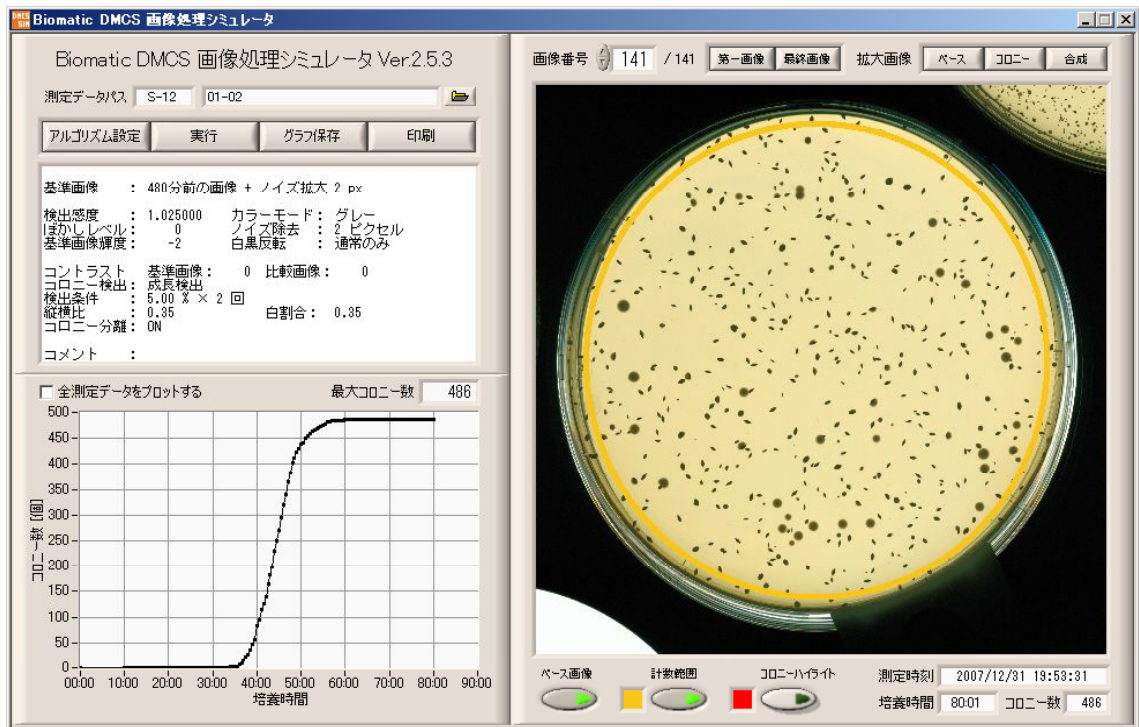
*To detect *L. fructivorans* incubate at 31 to 32 degrees C.
To detect other *Lactobacillus*, incubate at 35 degrees C.

3. Preservation

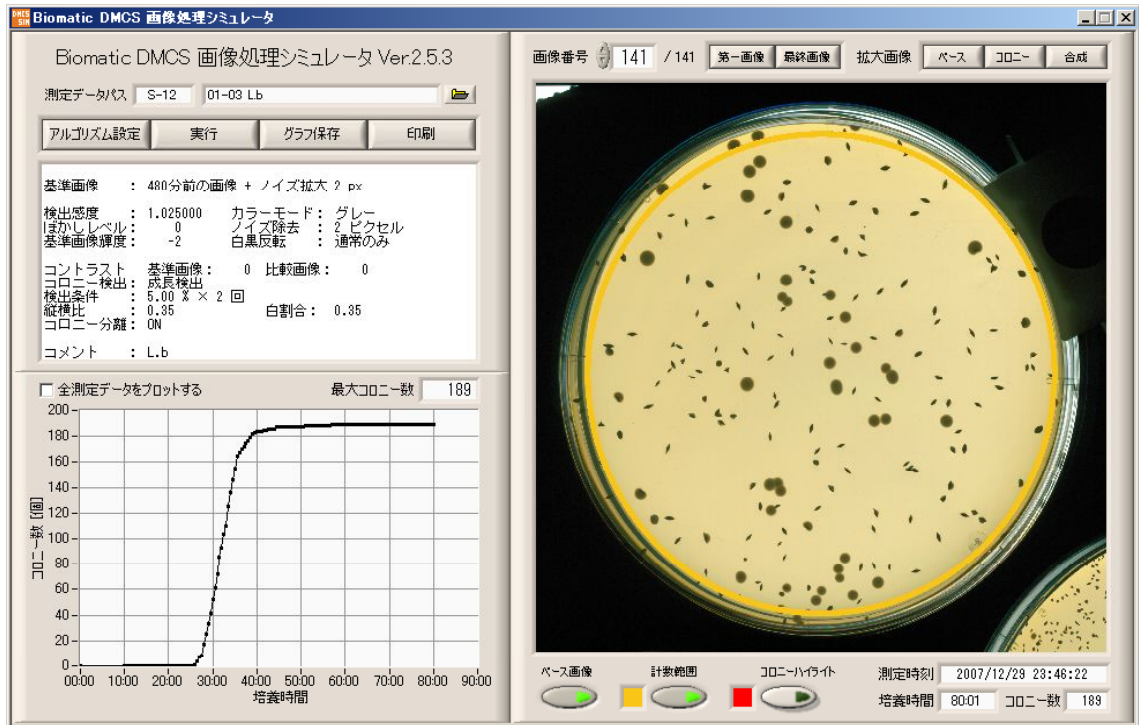
For preservation, keep and store the media in dark place at room temperature.

4. Detection Examples (MicroBio system Data)

4-1 1ml Sample Poured-plate: *Lactobacillus fructivorans* (NBRC13118) on DCM003 media [MicroBio system S-12 Data (60 hour-detection) at 31 degrees C Incubation]



4-2 1ml Sample Poured-plate: *Lactobacillus brevis* on DCM003 media [MicroBio system Data (45 hour-detection) at 35 degrees C Incubation]

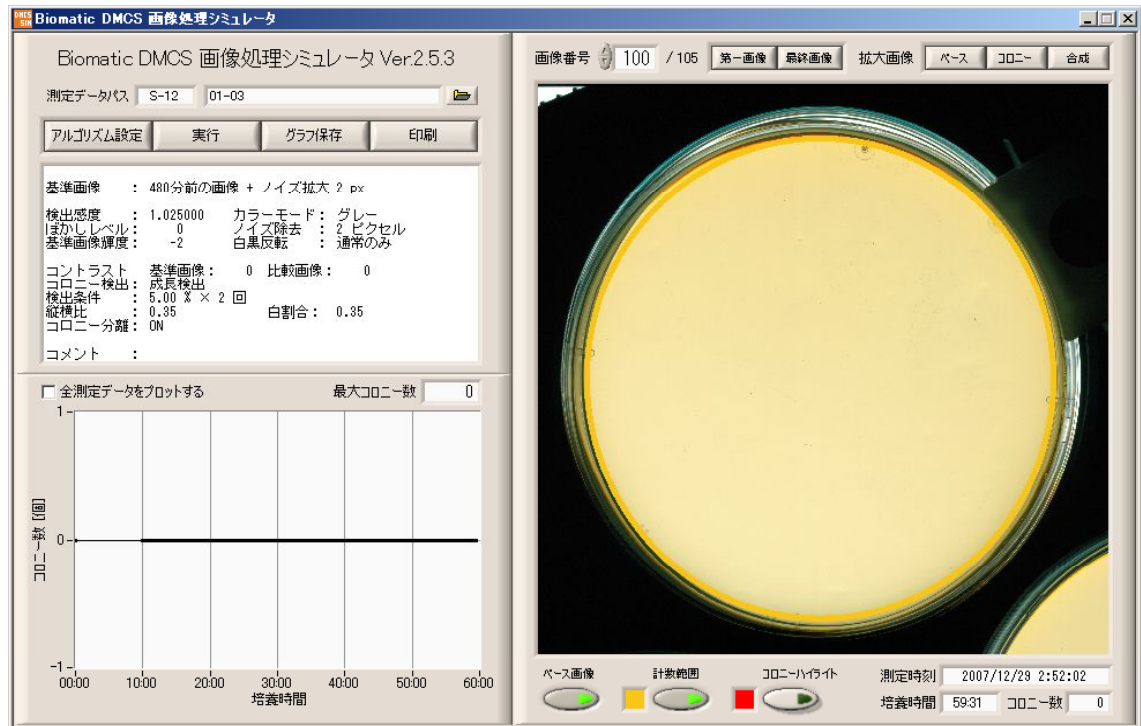


Reference) Growth suppression effect on *Saccharomyces cerevi*

The graphs below show the growth characteristic of *S. cerevi*. Using this Lactobacillus agar media (DCM003), the growth was suppressed and no colony of *S. cerevi* was observed even after 60 hours of incubation. Using a potato dextrose agar media, 70 cfu was detected in the same 1ml sample.

1ml Sample poured-plate: *S. cerevisiae* (ATCC9763) on DCM003 media

[MicroBio system Data (No colonies even after 60 hour of incubation) at 35 degrees C incubation]



1ml Sample poured-plate: *S. cerevisiae* (ATCC9763) on Poteto Dextrose Agar media

[MicroBio system Data (70 cfu detected) at 35 degrees C Incubation]

