

**United States Department of Agriculture
Animal and Plant Health Inspection Service
Center for Veterinary Biologics
P. O. Box 844
Ames, IA 50010**

1. **Reagent Name:** *Mycoplasma fermentans*
2. **Strain or Source:** BRP batch 1; European Directorate for the Quality of Medicines & HealthCare (EDQM); Strasbourg, France
3. **Lot Number:** 17Apr12-MF
4. **Fill Date:** April 17, 2012
5. **Expiration Date:** None

Precautions: This reagent must be handled in a manner consistent with Biosafety Level 2 (BSL-2) standards.

6. **Intended Use:** For use as a reference standard in the culture method to determine mycoplasma contamination of biological products.
7. **Instructions for Use:** Vials of the culture should be rapidly thawed in a 35°-38°C water bath and immediately diluted in sterile saline (0.8-0.9% NaCl solution) to achieve the desired concentration of colony forming units (CFU); refer to Section 14. To maintain viability, culture dilutions must be inoculated onto medium within 10 minutes of preparation.
8. **Test of Reagent:** Purity of this reagent was analyzed by the method described in 9 CFR 113.27(d). The estimated titer of this reagent was determined empirically using standard plate count analysis.
9. **Container Size, Type, Weight, or Volume:** 1.0 mL frozen culture
10. **Storage Conditions:** -60°C or colder
11. **CVB Technical Contact:** Bacteriology Section, Center for Veterinary Biologics, (515) 337-6100.
12. **Origin and Passage History:** The strain was first isolated in 2000 from cell culture. The CVB acquired the strain from the EDQM in 2012.

13. Method of Preparation: The culture was diluted to a stock concentration recommended by the European Pharmacopoeia in Reference Standard Leaflet Y0000692 in mycoplasma medium supplemented with 15% glycerol. The diluted culture is stored at less than -60°C.

14. Other: The estimated titer of this reagent is 7,456 CFU/mL. To achieve a use-dilution containing a target concentration of approximately 100 CFU/mL, prepare a 1:74 dilution in sterile saline. Begin by making a 1:7.4 dilution (0.5 mL culture + 3.2 mL saline) followed with a 10-fold dilution. Subsequent 10-fold dilutions may be generated to produce 10 CFU/mL, 1 CFU/mL, and 0.1 CFU/mL solutions. To verify the concentration of the dilutions, plate 0.1 mL of each dilution on mycoplasma agar plates and incubate for 10-14 days in a humidified chamber containing 4-6% CO₂ in air or 4-6% CO₂ in nitrogen.

Restrictions: This reagent is intended as a one-time use reference standard for the mycoplasma contamination test. Culturing this organism with the intent to propagate a stock culture is not permitted.

Reagent orders and feedback should be sent *including phone number* to the following email address: VS.DB.CVB.Reagent.Requests@usda.gov

Reagent orders forms (APHIS 2018) can be found on the CVB website.