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 orale

2. Strain or Source: BRP batch 1; European Directorate for the Quality of Medicines & HealthCare (EDQM); Strasbourg, France

3. Lot Number: 18Apr12

4. Fill Date: April 18, 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 Vero cell culture. The CVB acquired the strain from the EDOM in 2012.

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- 13. Method of Preparation: The culture was diluted to a stock concentration recommended by the European Pharmacopoeia in Reference Standard Leaflet Y0000691 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 1,962 CFU/mL. To achieve a use-dilution containing a target concentration of approximately 100 CFU/mL, prepare a 1:19 dilution in sterile saline. Begin by making a 1:1.9 dilution by adding 0.9 mL saline to thawed culture and mix gently with a pipette, 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.

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