

TML/MSH Microbiology Department Policy & Procedure Manual	Policy # MI/VIR/06/v01	Page 1 of 2
Section: Virology Manual	Subject Title: Broncho-Alveolar Lavage (BAL) - CMV Surveillance (PMH)	
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BRONCHO-ALVEOLAR LAVAGE (BAL) - CMV SURVEILLANCE

I. Introduction

Broncho-alveolar lavage specimens (BAL) for CMV surveillance collected on day 35 post-bone marrow transplant patients or routine screening of solid organ transplant patients are examined for CMV only.

II. Collection and Transport

BAL fluid should be collected into a clean, sterile container. If a delay in transport or processing is anticipated, keep the specimen at 4 °C.

III. Procedure

A. Processing of Specimen:

- a) Approximately 2-3 mL of centrifuged sediment should be received from the specimen receiving planting area.
- b) Transfer 2 mL of sediment to a sterile freezer vial containing 4 drops (0.2 mL) gentamicin (1 mg/mL) and 2 drops (0.1 mL) of fungizone (250 µg/mL) to a final concentration of 100 µg/mL and 10µg/mL respectively.
- c) Allow to stand at room temperature for 10 minutes
- d) Refer to Appendix II for Shell Vial inoculation.

B. Direct Examination: Not done.

C. Isolation and Identification:

Method	Cell Lines^a	Incubation at 36°C	Stain^b used
Shell Vial	MRC-5	2 days	CMV-IE

^aMRC-5 = Human fibroblast cells

^bCMV-IE= Monoclonal antibody IFA stain for CMV immediate early antigen

Refer to Appendix II for Shell Vial staining and interpretation.

