



Laboratory Service Manual

Lab Dept: Chemistry

Test Name: 5-FLUOROCYTOSINE LEVEL

General Information

Lab Order Codes: 5FC

Synonyms: Antifungal Level, Fluorcytosine

CPT Codes: 80299 – Quantitation of drug; not elsewhere specified

Test Includes: 5-Fluorocytosine level reported in ug/mL.

Logistics

Test Indications: This anti-fungal drug is ordinarily used with amphotericin B for life-threatening fungal infections, such as fungal meningitis or other invasive disease.

Lab Testing Sections: Chemistry - Sendouts

Referred to: Fairview University Diagnostic Laboratories (Test: 5CFL)

Phone Numbers:

Minneapolis: 612-813-6280

Saint Paul: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 - 3 days, test performed Monday - Friday

Special Instructions: May be tested in the presence of amphotericin B. Specify other antifungal agents patient is currently receiving; some antifungal agents cannot be tested in the presence of others. To reduce turnaround, notify laboratory as soon as intent to collect titer is known so organism can be prepared.

Specimen

Specimen Type: Whole blood, CSF or other body fluid

Container: Collect blood in red top tube (plain, no gel); collect CSF or fluid in sterile container.



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Draw Volume:	Blood: 3 mL (Minimum: 1.2 mL) CSF or fluid: 1 mL (Minimum: 0.5 mL)
Processed Volume:	Serum: 1.0 mL (Minimum 0.5 mL) CSF or fluid: 1.0 mL (Minimum 0.5 mL)
Collection:	Designate which specimens are peak and trough. Trough specimens are collected just prior to the next dose. Peak specimen collections should be collected 1 ½ - 2 hours after oral dose.
Special Processing:	Lab Staff: Centrifuge blood and aliquot) serum. Store in refrigerator. Ship at room temperature. Specimen must arrive within 24 hours of collection.
Patient Preparation:	None
Sample Rejection:	Mislabeled or unlabeled specimens

Interpretive

Reference Range:	25 - 80 ug/mL; 40 - 60 ug/mL is optimal
Critical Values:	>100 µg/mL may be toxic
Limitations:	N/A
Methodology:	Bioassay
Contraindications:	Patient receiving Amphotericin B or Ketoconazole simultaneously will interfere with assay.
References:	Fairview University Diagnostic Laboratories Laboratory Web Page http://labguide.fairview.org/diagnostic.asp (September 2009)