

LAB164 Glucose 3 Hour Tolerance Test (Non-pregnant Adults and Pediatrics)

BMC, CRH, LFH, HRK, OCH, FTT, FOX, FCC

Performing Location(s)

BMC, CRH, LFH, HRK, OCH, FTT, FOX, FCC

Specimen Type

Serum or Plasma

Preferred Container

Gold or Red top tube

Alternate Container

Green or Gray top tube

Minimum Volume

0.5 mL Serum or Plasma

Multiple test can be performed from this volume. For question please contact the lab at 547-3975.

Transportation Needs

Deliver specimen to laboratory within 1 hour of collection if unspun.

If not possible see "Storage Requirements".

Storage Requirements

Sample tubes should be centrifuged within 2 hour of collection followed by transfer of the serum (red or gold top) or plasma (green top) to a labeled plastic, aliquot tube.

See Causes of Rejection for temperature requirements.

Gray top tubes do not require centrifugation for transport up to 48 hrs.

Causes for Rejection

Mislabeled or unlabeled specimen

Less than 50% draw for vacutainer tubes

Patient not fasting prior to start of GTT

Stressed patient (surgery, infection, corticosteroids)

Specimen not labeled with hourly times.

> 72 hours refrigerated

> 8 hours room temperature

> 5 days frozen

Hemolysis > 500 mg/dL HgB

Lipemia > 700 mg/dL Trig

Bilirubin > 40 mg/dL Bili

Reference Values

Diagnosis criteria for 3 Hr GTT (3GTTL) (100 gram dose) Two or more glucose concentrations must exceed the reference range			
Specimen	Normal Reference Range (mg/dL)	High Critical Value	Low Critical Value
Fasting	70- 100	>450	<40
1 hour	105 - 160	>450	<40
2 hour	95 - 130	>450	<40
3 hour	70 - 110	>450	<40

Available STAT

Yes

Methodology

Beckman AU/Dx Series

CPT Code

82951 (x3), 82952