

LAB167 Glucose 5 Hour Tolerance Test (Non-pregnant Adults and Pediatrics)

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

Performing Location(s)

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

Specimen Type

Serum or Plasma

Preferred Container

Gold or Red top tube

Alternate Container

Green or Gray top tube

Minimum Volume to Submit for Testing

0.5 mL Serum or Plasma

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.

Transportation Needs

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

If not possible see "Storage Requirements".

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

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|---|
| Diagnosis criteria for 5 Hr GTT (5GTT) (100 gram dose) |
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| Two or more glucose concentrations must exceed the reference rang |
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| 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 |
| 4 hour | 70 - 100 | >450 | <40 |
| 5 hour | 70 - 100 | >450 | <40 |

Available STAT

Yes

Methodology

Beckman AU/Dx Series

CPT Code

82951 (x3), 82952 (x3)