



Intraperitoneal Glucose Tolerance Testing (IPGTT)

Version: 1.0

Replaced by version: N/A

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Summary: This is the standard protocol for most routine glucose tolerance testing. It is performed on awake mice, fasted for 6 hr.

Reagents and Materials:

Reagent/Material	Quantity Required	Vendor	Stock Number
D-Glucose stock, 100 mg/ml in saline	10 μ l/g body weight	Any	
1 cc syringe, 27 Ga 1/2" needle		BD	
Glucometer			

Protocol:

1. Mice are fasted for six hours by removal to a clean cage without food at the end of their dark (feeding) cycle.
2. Mice are weighed.
3. After 6h of fasting, a fasting glucose level is obtained from venous blood from a small tail clip.
4. 1 mg/g body glucose is injected intraperitoneally.
5. Blood glucose values are obtained at 5, 15 30, 60, and 120 min.
6. If desired, blood may also be obtained for insulin assay (~50 μ l) at any time point.