

## Injection Volume and Needle Sizes by Species and Injection Route

Species	Subcutaneous (SC or SQ)	Intraperitoneal (IP)	Intravenous (IV)	Intramuscular (IM)	Oral (PO) gavage
Mouse---volume	40 ml/kg not to exceed more than 2 ml	40ml/kg but not to exceed 1 ml total volume	5 mg/kg; tail vein and retroorbital injection maximum volume of	0.05 ml/site (2 sites per day)	10 ml/kg
Mouse Recommended needle sizes	23 gauge needle or smaller	25-27-gauge needle			