

Isolation of Serum

Equipment:

- Benchtop centrifuge (Allegra X-15R, Beckman Coulter)
- Pipette Gun (Drummond)

Materials:

- 5mL or 8mL Red topped serum tube (Fisher, #0268798 or #367988)
- 2mL sterile, serological pipette (Fisher, #356507)
- Red microfuge tubes (E&K Scientific, Cat# 280060-R)

Procedure:

1. Centrifuge the serum tube (red top, gold top, or SST) at 1026 x g for 10 minutes.
2. Label tubes with appropriate de-identified cryogenic labels.
3. Aliquot the serum into aliquots (refer to Appendix A for aliquot quantities and volumes) in the red microfuge tubes.
4. Freeze at -80°C.

Appendix A – HIMC Aliquot Guidelines

Serum**	Whole Blood Volume	Standard Volume/Aliquot	Required # of vials	Minimum Volume per aliquot	Maximum Volume per aliquot
	up to 3ccs	120uL	4	120uL	200uL
3-5ccs	200uL	4	120uL	500uL	
> 5ccs	350uL	4	200uL	500uL	

**4 aliquots of serum are required for HIMC. Volume size can be more or less (while staying within ranges above) depending on total serum volume harvested from whole blood.

**Flu Studies: Additional aliquots of serum may be required for other collaborators. Refer to Flu Distribution chart for those details and volume requirements.