**Trypan Blue for Viability**
(Greg A. Perry, Ph.D.)

**Equipment:**
- Balance
- 100 ml glass bottle with lid
- 0.45 μm or 0.2 μm syringe top filter
- 10cc or 60cc syringe

**Reagents:**

*Stock Solution*
- 0.2 gm Trypan Blue (Sigma Catalog # F-7378)
- 99.8 ml Distilled Water
- 0.2% Sodium Azide

*Working Solution*
- 0.43 gm Sodium Chloride (NaCl)
- 9.58 ml Distilled Water
- 2 ml Stock Solution

**Methods:**

*Stock Solution (10x)*
1) Dissolve the trypan blue in the water.
2) Filter with 0.45μm or 0.2μm filter to remove particles.
3) Add 0.2% sodium azide to inhibit bacterial growth.

*Working Solution (2x)*
1) Make a 5x saline solution by dissolving the sodium chloride in 9.58 ml distilled water.
2) Add 2ml Trypan Blue Stock Solution and mix well.