



## Propionic Acid Preparation from Protocol

**Cat # 20-271 & 20-272**

**Propionic Acid, Sodium Salt**

**Molecular Weight 96.06g**

To make 1L 1M Propionic Acid from Propionic Acid, Sodium Salt

1. Dissolve 96.06g Propionic Acid, Sodium Salt in 500ml distilled water to make 2M Propionic Acid, Sodium Salt solution
2. Add 500ml 2M HCl to 2M Sodium Propionate Solution to make 1L 1M Propionic Acid\*.
3. Test pH of Propionic Acid. pH should be between pH 4.6 – pH 4.7.
  - a. If pH is above 4.7, titrate the solution with HCl to bring the pH down to specification.
4. The newly made 1M Propionic Acid may be diluted to the desired concentration and added to fly food according to protocol.

\* If making a differing concentration of Propionic Acid, it is important that the concentration of the HCl equals the concentration of the dissolved Propionic Acid, Sodium Salt in water.