

Sample Preparation Protocol SP-08 Preparation of *Drosophila* Larvae (for use w/ COPAS)

Scope

The intended use of this protocol is to aid the COPAS operator with a method for preparing *Drosophila* larvae for use with the COPAS instrument.

Materials

- Small paintbrush
- 15 ml conical tubes
- Fly Wash (See Sample Preparation Protocol SP-07)
- COPAS ESS Sheath (P/N 335-5070-000) & COPAS ESS Solution (P/N 335-5075-000)

Procedure

Obtain 2 (MINIMUM) plates of *Drosophila* containing the following:

<i>EXPRESS</i> instrument	Embryos to 1 st instar
<i>SELECT</i> instrument	Embryos to 1 st instar
<i>PLUS</i> instrument	1 st to 2 nd instar

Flood each plate with Fly Wash solution.

Using small paintbrush, brush larvae and embryos off plate into solution.

NOTE: Large amounts of yeast paste will also be brushed into the fly wash.

Decant the liquid from the plates into 15 ml conical tubes.

Let settle for approximately 3 minutes or centrifuge at low speed for 30 seconds. Discard supernatants and add more Fly Wash. Repeat settling and adding Fly Wash steps until supernatant is CLEAR. This is to insure a clean preparation for use with the instrument.

Discard final Fly Wash supernatant and add Sheath to the concentrated flies to obtain a final concentration of 150 to 200 organisms / ml. The sample is now ready for processing on the COPAS instrument.

NOTE: It is recommended that you process the sample immediately for the best embryo viability. The sample may be aerated in the secondary sample container for excellent viability up to 6 hours.

Questions?

For further information, please contact Union Biometrica, Inc. directly at 617.591.1211 or email your questions to appsupport@unionbio.com

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