

Materials List for:

Isolation and Purification of *Drosophila* Peripheral Neurons by Magnetic Bead Sorting

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Materials

Name	Company	Catalog Number	Comments
10X Phosphate Buffered Saline (PBS)	MP Biomedicals	PBS10X02	Diluted to 1X working solution
10X Liberase Blendzyme 3	Roche Group	11814176001	Diluted to 1X working solution (28 Wünsch units/vial)
RNase-AWAY	Sigma-Aldrich	83931	
Biotinylated Rat anti-Mouse-CD8a antibody	Invitrogen	MCD0815	100 µg/ml stock concentration
BSA (Bovine Serum Albumin), Fraction V	GIBCO, by Life Technologies	11018-017	Prepare a 1% BSA solution in PBS
Dynabeads M-280 Streptavidin	Invitrogen	11205D	1 µl can bind 0.05-0.10 µg of biotinylated antibody
PicoPure RNA Isolation Kit	Molecular Devices	KIT0204	Follow manufacturer's instructions

Equipment

- (10) Neodymium block magnets (K & J Magnetics, Inc., Cat. #B444B), alternatively DynaMag™-2 (Invitrogen, Cat. #123-21D) may be used.
- Kontes Glass Tissue Grinder, 2 ml working capacity, with large clearance pestle (Cat. #885300-0002)
- Cell filters, e.g. MACS Pre-Separation Filter (Miltenyi Biotec, Cat. #130-041-407)
- 35 mm petri-dishes coated with Sylgard (Dow Corning Corporation, Cat. #3097358-1004)
- Dissecting tools: two pairs of Dumont No. 5 forceps (Fine Science Tools, Cat. #11251-20)
- Vannas spring micro-dissection scissors (Fine Science Tools, Cat. #15000-08)
- Pipettes (P-1000, P-100, P-10) with disposable tips
- Standard hemocytometer to count the cells and estimate purity
- Pasteur pipettes with fire polished tips of standard diameter, narrowed to ~50% of standard diameter and narrowed to ~25% of standard diameter for trituration
- Table top micro-centrifuge (1-16,000 (x) g)
- Vortex
- Fluorescent stereo-microscope (a Leica MZ16FA was used in this protocol)