

Materials List for

Gut Isolation from Zebrafish Larvae for Single-cell RNA Sequencing

Naomi J. M. Kakialatu¹, Laura E. Kuil^{1,2}, Eric Bindels³, Joke T. M. Zink³, Michael Vermeulen³, Veerle Melotte⁴, Maria M. Alves¹

¹Department of Clinical Genetics, Erasmus University Medical Center - Sophia Children's Hospital ²Division of Psychosocial Research and Epidemiology, the Netherlands Cancer Institute ³Department of Hematology, Erasmus Medical Center ⁴Department of Pathology, GROW-School for Oncology and Developmental Biology, Maastricht University Medical Center

Corresponding Author

Maria M. Alves
m.alves@erasmusmc.nl

Citation

Kakialatu, N.J.M., Kuil, L.E., Bindels, E., Zink, J.T.M., Vermeulen, M., Melotte, V., Alves, M.M. Gut Isolation from Zebrafish Larvae for Single-cell RNA Sequencing. *J. Vis. Exp.* (201), e65876, doi:10.3791/65876 (2023).

Date Published

November 10, 2023

DOI

10.3791/65876

URL

jove.com/video/65876

Materials

Name	Company	Catalog Number	Comments
10x Trypsin (0.5%)-EDTA (0.2%)	Sigma	59418C	
5 mL round bottom tube with cell-strainer cap	Falcon	352235	
Agarose	Sigma-Aldrich	A9539	
BD Falcon Round-Bottom Tube 5 mL (FACS tubes) snap cap	BD Biosciences	352054	
Cell Ranger v3.0.2	10X Genomics	N/A	
DAPI	Sigma-Aldrich	Cat#D-9542	
Dissection microscope	Olympus SZX16		
FACSAria III sorter machine	BD Biosciences	N/A	
HBSS with CaCl ₂ and MgCl ₂	Gibco	14025050	
Insect pins	Fine Science Tools	26000-25	
L-Cysteine	Sigma	C7352	
MS-222, Tricaine	Supelco	A5040-250G	
Papain	Sigma	P4762	
Seurat v3	Stuart et al. (2019)	N/A	
Trypan blue	Sigma	Cat#T8154	