

Materials List for:

Assessing Lysosomal Alkalinization in the Intestine of Live *Caenorhabditis elegans*

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URL: <https://www.jove.com/video/57414>

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Materials

| Name | Company | Catalog Number | Comments |
|---|--------------------------------|----------------|--|
| OP50 (<i>E. coli</i>) | Caenorhabditis Genetics Center | | Order online at https://cgc.umn.edu/strain/OP50 |
| 5(6)-carboxy-2',7'-dichlorofluorescein diacetate | ThermoFisher | C369 | Commonly known as cDCFDA |
| 9-diethylamino-5H-benzo(a)phenoxazine-5-one and (3-{2-[(1H,1'H-2,2'-bipyrrol-5-yl-kappaN(1))methylidene]-2H-pyrrol-5-yl-kappaN}-N-[2-(dimethylamino)ethyl]propanamidato)(difluoro)boron | ThermoFisher | L7528 | Commonly known as LysoTracker Red |
| Confocal microscope (e.g. Zeiss LSM 510) | | | |
| ImageJ | | | Download for free from https://imagej.nih.gov/ij/download.html |
| LB Broth powder | ThermoFisher | 22700041 | |
| Bacto Agar | Sigma | A5306-1KG | |
| NaCl | Sigma | S9888 | |
| Bacto Peptone | Fisher Scientific | S71604 | |
| Cholesterol powder | Sigma | C3045 | |
| CaCl ₂ | Sigma | 449709 | |
| MgSO ₄ | Sigma | M7506 | |
| K ₃ PO ₄ | Sigma | P5629 | |
| Sodium Azide | Sigma | S2002 | |
| DMSO | Sigma | D8418 | |
| Microscope Slides | VWR | 48311-703 | |
| Cover Slips | ThermoFisher | 3406 | |
| Agarose | Sigma | A6013 | |
| Incubator | | | |
| Mirror or other smooth flat surface | | | |