

Materials List for

# Real-Time In Vitro Migration Assay for Primary Murine CD8+ T Cells

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## Materials

| Name   | Company                 | Catalog Number  | Comments                              |
|--|-------------------------|---|---------------------------------------|
| 10 cm dish                                   | Corning                 | 353003  | or equivalent                         |
| 15 mL conical tube                           | ThermoFisher            | 339650  | or equivalent                         |
| 1x DPBS                                      | Gibco                   | 14190144  | without calcium and without magnesium |
| 6 well plate non-TC treated                  | Corning                 | 3736  | or equivalent                         |
| 70 µm cell strainer                          | FisherScientific        | 352350  | or equivalent                         |
| ACK lysing buffer                            | ThermoFisher            | A1049201  | or equivalent                         |
| Allegra 6KR centrifuge                       | ThermoScientific        | sorvall 16R with tx400 3655 rotor and bucket  | or equivalent                         |
| Beta mercaptoethanol                         | Sigma                   | M3148   | or equivalent                         |
| CellTrace Violet                             | ThermoFisher            | C34571  | Or equivalent                         |
| Centrifuge                                   | ThermoScientific        | Sorvall ST 16R  | or equivalent                         |
| Collagen (IV)                                | Corning                 | 354233  | or equivalent                         |
| DeltaT culture dish .17 mm thick glass clear | Bioprotechs             | 04200417C   |                                       |
| Dynabeads Sheep anti-Rat IgG                 | Invitrogen              | 11035   |                                       |
| DynaMag 15 Magnet                            | ThermoFisher Scientific | 12301D  | or equivalent                         |
| Easy sep mouse T cell isolation kit          | Stem Cell               | 19851   |                                       |
| FBS  | SigmaAldrich            | F2442-500ML   | or equivalent                         |
| Fibronectin                                  | SigmaAldrich            | 10838039001   | or equivalent                         |
| Fiji   |                         | <a href="http://fiji.sc/">http://fiji.sc/</a>   | weblink                               |
| Filter cubes                                 | Nikon or Olympus        |   |                                       |
| GK1.5  | ATCC                    | TIB-207   |                                       |
| HEPES  | ThermoFisher            | 15630080  | or equivalent                         |
| HQ CCD camera                                | CoolSNAP                |   | or equivalent                         |
| ImageJ                                       |                         | <a href="http://imagej.nih.gov/ij/h">http://imagej.nih.gov/ij/h</a>   | weblink                               |
| ImageJ automatic tracking plug in            |                         | <a href="http://imagej.net/TrackMate">http://imagej.net/TrackMate</a>   | weblink                               |
| ImageJ manual tracking plug in               |                         | <a href="https://imagej.nih.gov/ij/plugins/track/track.html">https://imagej.nih.gov/ij/plugins/track/track.html</a> | weblink                               |

|  |                         |               |  |
|--|-------------------------|---------------|--|
| L-15   | Various                 | See Materials | Medium Recipe: Leibovitz's L-15 medium without phenol red (Gibco) supplemented with 1-5 g/L glucose  |
| Liebovitz's L-15 medium, no phenol red         | ThermoFisher            | 21083027      |  |
| Luer Lok disposable syringe                    | Fisher Scientific       | 14-955-459    | or equivalent  |
| Lymphocyte separation medium                   | Corning                 | 25-072-CI     | or equivalent  |
| M5/114   | ATCC                    | TIB-120       |  |
| MEM Non-Essential Amino Acids                  | ThermoFisher            | 11140050      | or equivalent  |
| Microscope heating system                      | Okolab                  | okolab.com    | Custom designs available   |
| Millicell EZ slide                             | Millipore               | C86024        |  |
| Mojosort mouse CD8+ Naïve T cell isolation kit | Biolegend               | 480043        |  |
| Mouse E-cadherin                               | R&D systems             | 8875-EC-050   | or equivalent  |
| Mouse surgical dissection kit                  | Fisher Scientific       | 13-820-096    | or equivalent  |
| NIS elements                                   | Nikon                   |               | Software   |
| non-TC 24wp                                    | Corning                 | 353047        | or equivalent  |
| Penicillin-streptomycin                        | ThermoFisher            | 15140122      | or equivalent  |
| Protein A                                      | ThermoFisher Scientific |               | or equivalent  |
| R9   | Various                 | See Materials | Medium Recipe: RPMI 1640x supplemented with 10 % FBS, 1 % antibiotic-antimycotic (Gibco), 20 mM HEPES buffer (Gibco), 1 % MEM Non-Essential Amino Acids (Gibco), 50 µM β-mercaptoethanol (Sigma-Aldrich) |
| Recombinant mouse ICAM-1 Fc chimera            | R&D systems             | 796-IC-050    | or equivalent  |
| Recombinant Mouse IL2                          | Biolegend               | 575410        | or equivalent  |
| RPMI 1640x                                     | ThermoFisher            | 11875093      | or equivalent  |
| T pins   | Fisher Scientific       | S99385        | or equivalent  |
| TE2000-U microscope                            | Nikon                   |               | or equivalent  |
| Various recombinant mouse chemokine            | R&D systems             |               | or equivalent  |
| VCAM-1 Fc chimera                              | R&D systems             | 643-VM-050    | or equivalent  |
| Volocity                                       | PerkinElmer             |               | Software   |