

Materials List for:

An Astrocyte and Neuronal Toxicity Assay for High Content Screening

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1

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Materials

Name	Company	Catalog Number	Comments
Rabbit Anti- β III-Tubulin HCS Primary Antibody, 100X		Part No. CS201672	1 vial containing 300 μ L Millipore HCS222 Kit Component
HCS Secondary Antibody (donkey anti-rabbit IgG, FITC conjugate), 200X		Part No. CS201649	1 vial containing 150 μ L Millipore HCS222 Kit Component
Mouse Anti-GFAP HCS Primary Antibody, 100X		Part No. CS201671	1 vial containing 300 μ L Millipore HCS222 Kit Component
HCS Secondary Antibody (donkey anti-mouse IgG, Cy3 conjugate), 200X		Part No. CS200437	1 vial containing 150 μ L Millipore HCS222 Kit Component
H-chst HCS Nuclear Stain, 200X		Part No. CS200438	1 vial containing 150 μ L Millipore HCS222 Kit Component
HCS Fixation Solution with Phenol Red, 2X		Part No. CS200434	1 bottle containing 100 mL Millipore HCS222 Kit Component
HCS Immunofluorescence Buffer, 1X		Part No. CS200435	1 bottle containing 1000 mL Millipore HCS222 Kit Component
HCS Wash Buffer, 1X		Part No. 2007643	1 bottle containing 500 mL Millipore HCS222 Kit Components
Acrylamide (Control Compound), 10X		Part No. CS201679	1 vial containing 500 μ L of 1M acrylamide in dH ₂ O Millipore HCS222 Kit Component
Hydrogen Peroxide (Control Compound), 10X		Part No. CS201730	1 vial containing 500 μ L of 100 mM hydrogen peroxide in dH ₂ O Millipore HCS222 Kit Components
K-252a (Control Compound), 250X		Part No. CS201741	1 vial containing 100 μ L of 250 μ M K-252a in DMSO Millipore HCS222 Kit Component
DMSO for Compound Serial Dilution		Part No. CS200441	1 bottle containing 10 mL Millipore HCS222 Kit Component
Compound Dilution Buffer		Part No. CS200442	1 bottle containing 25 mL Millipore HCS222 Kit Component
Plate Sealers		Part No. CS200443	10 each Millipore HCS222 Kit Components
Sterile, tissue culture-treated black/clear bottom microplates suitable for High-Content Imaging			
Cell-type for assay			e.g., PC12 (rat pheochromocytoma, ATCC #CRL-1721), SHSY5Y (human neuroblastoma, ATCC #CRL-2266), primary human

			or rodent astrocytes/neurons; astrocytoma or glioma cell lines.
Tissue culture instruments/supplies			For cell type of interest
Sterile distilled or deionized water (dH ₂ O)			For Control Compound dilution, as appropriate
HCS imaging/analysis system			e.g., GE Healthcare IN Cell Analyzer 1000 with Investigator software. System must be equipped with beam-splitters and filters capable of reading emission spectra in the blue, green and red ranges. Detailed image acquisition and analysis guidelines are provided in Table 2