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Product Datasheet

Cell-mediated Cytotoxicity Assay: Total Cytotoxicity Test BYT-ORB1409924

Article Name	Cell-mediated Cytotoxicity Assay: Total Cytotoxicity Test
Biozol Catalog Number	BYT-ORB1409924
Supplier Catalog Number	orb1409924
Alternative Catalog Number	BYT-ORB1409924-125
Manufacturer	Biorbyt
Category	Sonstiges
Product Description	A single-tube, tri-color fluorescent assay for quantitative assessment of apoptosis and necrosis. CFSE (green) labels target cells, 7-AAD (red) labels dead cells, and SR-FLICA (orange-red) labels active caspases. Analyze by flow cytometry....
Samples	Cell culture

Application Notes

Application Notes: 1. Prepare samples and controls, 2. Dilute Assay Buffer 1:10 with diH₂O and filter sterilize., 3. Reconstitute CFSE with 200 μ L DMSO and dilute 1:250 with 1X Assay Buffer., 4. Add 200 μ L CFSE to target cells to stain them green and incubate 15 minutes at room temperature., 5. Wash target cells and adjust cell concentration., 6. Add effector cells to target cells and incubate 4-6 hours., 7. Reconstitute SR-FLICA with 100 μ L DMSO and dilute 1:12.6., 8. Add 10 μ L SR-FLICA to label apoptotic cells orange-red and incubate 45 minutes at 37C., 9. Reconstitute 7-AAD with 260 μ L DMSO and dilute 1:10 with 1X Assay Buffer., 10. Add 20 μ L 7-AAD to label necrotic cells red and incubate 10 minutes on ice., 11. Run controls and analyze with a flow cytometer. Identify target cells by analyzing FL-1 (green) vs. FL-3 (red). Create a plot of FL-2 (orange-red) vs. FL-3 (red). CFSE excites at 492 nm and emits at 520-540 nm, 7-AAD excites at 546 nm and emits at 647 nm, SR-FLICA excites at 565 nm and emits at 600 nm