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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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IncuCyte® Annexin V Orange Reagent for Apoptosis

Catalog number: 4759

Presentation, storage and stability

The IncuCyte® Annexin V Orange Reagent is supplied as lyophilized solid in sufficient quantity capable of performing 100–200 tests (1 test = 1 well of 96-well microtiter plate). The lyophilized solid should be stored at -20°C and once solubilized, the solution should be stored at +4°C and protected from light. When stored as described, the lyophilized solid will be stable for at least 2 years and the solution for at least 1 week.

Background and intended use

The IncuCyte Annexin V Orange Reagent is a specially formulated highly-selective cyanine-based fluorescent dye ideally suited to a simple mix-and-read, real-time quantification of apoptosis. Addition of the IncuCyte Annexin V Orange Reagent to normal healthy cells is non-perturbing to cell growth or morphology and yields little or no intrinsic fluorescent signal. Once cells become apoptotic, plasma membrane phosphatidylserine (PS) asymmetry is lost leading to exposure of PS to the extracellular surface and binding of the IncuCyte Annexin V Orange Reagent, yielding a bright and photostable fluorescent signal. With the IncuCyte® integrated analysis software fluorescent objects can be quantified and background fluorescence minimized.

These pre-aliquoted reagents have been specially formulated and validated for use with the IncuCyte® S3 Live-Cell Analysis System for Neuroscience (Cat No. 4763), and enable real-time evaluation of cell membrane integrity and apoptosis in response to pharmacological or biological agents and/or genetic and environmental factors. The IncuCyte S3 for Neuroscience is configured with an Orange/NIR Optical Module. The IncuCyte Annexin V Orange Reagent is not compatible with IncuCyte instruments configured with a Green/Red Optical Module, e.g. Cat No 4647. Furthermore, the IncuCyte® Annexin V Reagent can be combined with the IncuCyte® confluence metric for multiplexed measurements of apoptosis and cell proliferation in every assay well.

Recommended use

We recommend that the IncuCyte Annexin V Orange Reagent is solubilized by adding 100 µL of full media or PBS. The reagents may then be diluted in full media containing at least 1 mM CaCl₂ for direct addition to cells seeded in a 96-well plate to yield a final dilution of 1:200. When used in an IncuCyte® S3 for Neuroscience, we recommend data collection every 2–3 hours.

Annexin V Orange Reagent

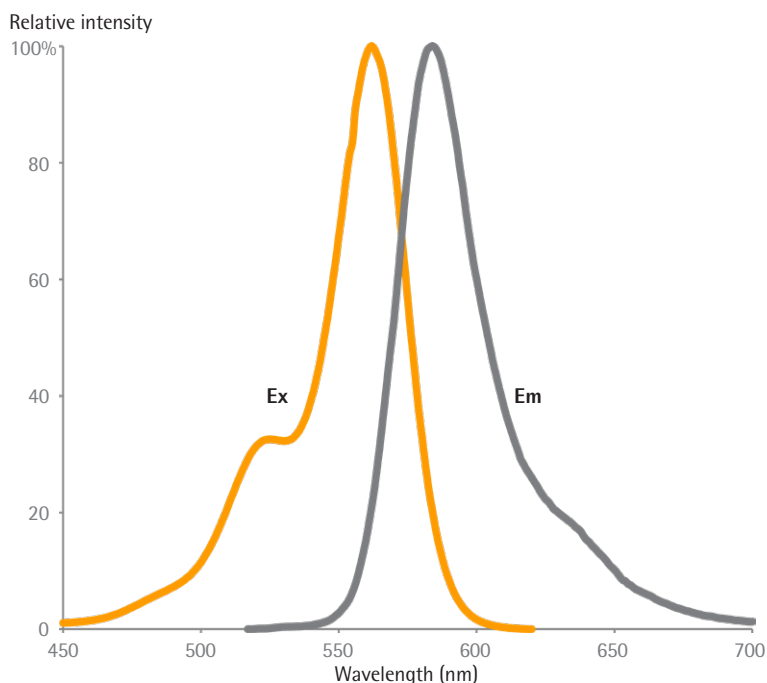
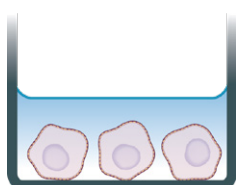


Figure 1. Excitation and emission spectra for the Annexin V Orange Reagent.

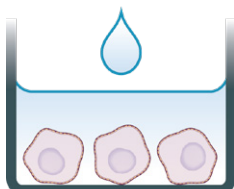
Quick guide

1 SEED CELLS



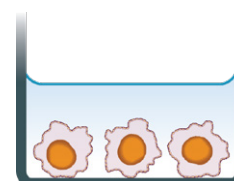
Seed cells (100 µL/well) into a 96-well plate.

2 PREPARE APOPTOSIS REAGENT AND TREAT CELLS



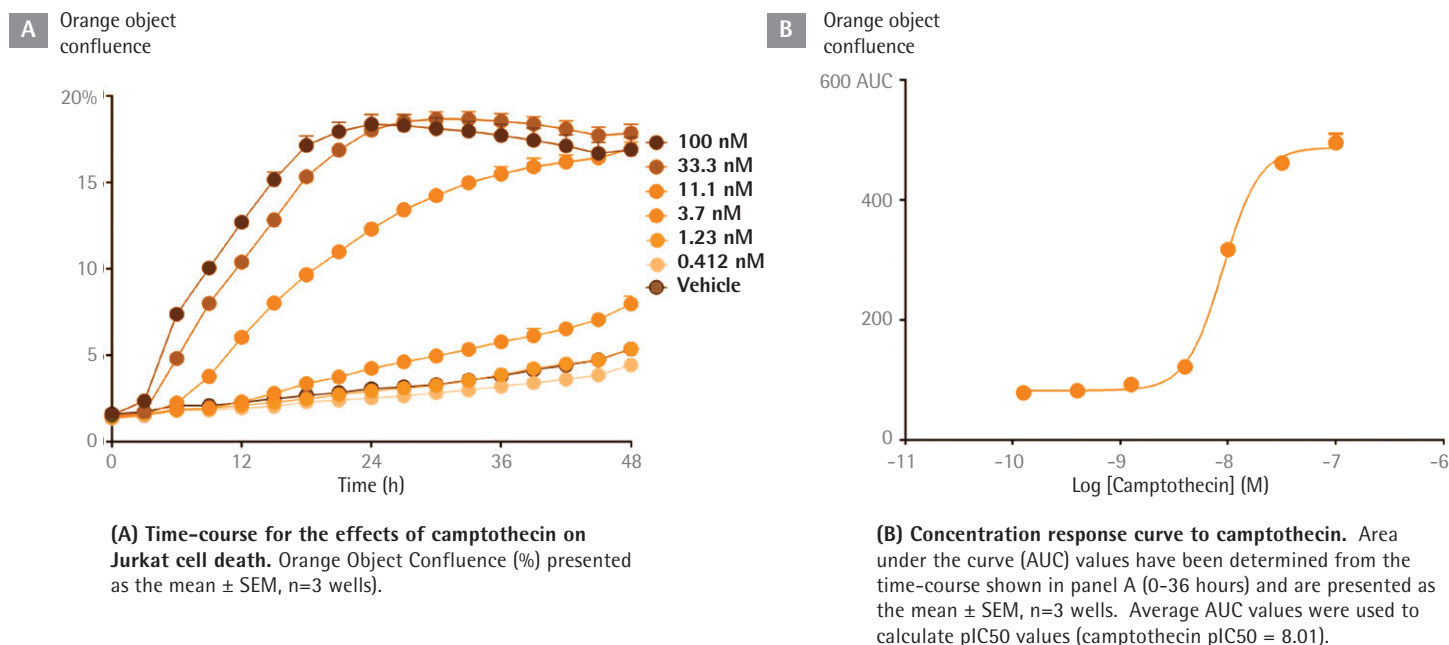
Prepare the desired treatments at 1x in medium containing IncuCyte® Annexin V Reagent and add treatment.

3 LIVE-CELL FLUORESCENT ANALYSIS



Capture images every 2-3 hours (20x or 10x) in the IncuCyte® S3 System. Analyze using integrated software.

Figure 2. Concentration- and time-dependent increase of PS binding by IncuCyte Annexin V Orange Reagent following addition to Jurkat human T-cell leukemia cells treated with the topoisomerase inhibitor, camptothecin.



FOR RESEARCH USE ONLY. NOT FOR THERAPEUTIC OR DIAGNOSTIC USE.

Product	Cat No.	Amount	Ex. maxima	Em. maxima
IncuCyte® Annexin V Orange Reagent	4759	100 tests	562 nm	583 nm

Product label license

This product is provided under an agreement between Nexins Research and Biotium, Inc, and is subject to US Patent No. 5,834,196 and corresponding foreign patents. Purchase of labeled annexins includes a nontransferable authorization for research use by the purchaser; commercial use, including modification of the purchased product for resale, requires a separate license. The trademark "CF" is the property of Biotium, Inc. or its respective owners.