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## Product Datasheet

### Basic Calcein AM Cell Viability Kit BYT-ORB1409899

Artikelname	Basic Calcein AM Cell Viability Kit
Artikelnummer	BYT-ORB1409899
Hersteller Artikelnummer	orb1409899
Alternativnummer	BYT-ORB1409899-25
Hersteller	Biorbyt
Kategorie	Sonstiges
Produktbeschreibung	This kit allows researchers to easily and simultaneously differentiate between live and dead cells within a single sample. Samples can be analyzed using a flow cytometer, fluorescence plate reader, or fluorescent microscope....
Proben	Cell culture

Anwendungsbeschreibung

Application Notes: 1. Prepare samples and controls., 2. Dilute 10X Cellular Assay Buffer 1:10 with diH<sub>2</sub>O., 3. Reconstitute Calcein AM with 50  $\mu$ L DMSO., 4. Dilute 2 mM Calcein AM stock solution 1:5 by adding 200  $\mu$ L diH<sub>2</sub>O or PBS, forming a 400  $\mu$ M stock solution., 5. Stain with Calcein AM at a concentration between 1-10  $\mu$ M. The ideal staining concentration can vary based on cell line, application, etc., and should be determined by the end user. The recommended sample size is 0.4 mL., 6. Add Calcein AM to each sample and mix gently. For example, to stain a 0.4 mL sized sample with 10  $\mu$ M Calcein AM, add 10  $\mu$ L of the 400  $\mu$ M stock solution., 7. Incubate approximately 1 hour., 8. Reconstitute 7-AAD with 260  $\mu$ L DMSO, forming a 200X stock concentrate., 9. Add 7-AAD to each sample at 1:200 (e.g., add 2  $\mu$ L to 400  $\mu$ L of sample)., 10. Analyze with a flow cytometer or fluorescence microscope. Calcein AM excites at 494 nm and emits at 520 nm. 7-AAD excites at 546 nm and emits at 647 nm