

Certificate of Analysis



PRODUCT: *TransDetect*® Cell LIVE/DEAD Viability/Cytotoxicity Detection Kit

CAT. NO.
FC301

AMOUNT
100 rxns

LOT NUMBER
Q30921

SHELF LIFE
One year.

STORAGE CONDITIONS
At -20°C in dark

SHIPPING CONDITIONS
Dry ice(-70 °C)

DESCRIPTION

The *TransDetect*® Cell LIVE/DEAD Viability/Cytotoxicity Detection Kit provides a simple, high-specificity and low-toxicity way to distinguish between live and dead cells by combining Calcein-AM and Propidium iodide (PI). Quantification or sorting can be performed by flow cytometry.

Calcein-AM is a low-cytotoxicity non-fluorescent dye, which easily permeates intact live cells. In live cells, the Calcein-AM is converted to green fluorescent calcein with excitation and emission wavelengths of 490/515 nm by intracellular esterase digestion. PI is excluded by intact plasma membrane of live cells. It is a DNA-binding fluorescent dye with excitation and emission wavelengths of 535/617 nm, producing a bright red fluorescence in dead cells with broken membrane.

PACKAGE CONTENTS

Component	FC301-01
Calcein-AM Solution(1000×)	100 µl
PI Solution(1000×)	100 µl



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QUALITY CONTROL DATA

Assays	Standards	Results
Appearance	Each liquid component was clear without precipitates or floccules. The color of components in this batch showed no significant difference from control batch.	Meets standards
Live and Dead Cell Isolation	(1) The percentage of double-positive non-specific staining (UR quadrant) should not exceed 5%, and the difference should not exceed $\pm 2\%$ compared with the previous batch; (2) When single staining Calcein-AM and PI, the percentage of fluorescent cells was less than 10% compared with the previous batch; (3) When double staining, the distribution of live and dead cells was less than 10% different from the previous batch.	Meets standards



Notice to Purchaser

All products are for research use only. Caution: Not intended for human or animal diagnostic or therapeutic uses. If you have any further questions about this Certificate of Analysis, please contact us at +86-10-57815027 or +86-400-898-0321.

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17/10/2022