USER GUIDE

MesGen Biotechnology

For Research Use Only. Not For Use In Diagnostic Procedures

LIVE/DEAD 细菌活性/细菌毒性试剂盒

Live-Dead bacterial Cytotoxicity Kit

Cat.No. MCT8020

Size: 100 / 500 / 1000 tests

Technical literature is available at : www.mesgenbio.com E-mail MesGen Technical Services if you have questions on use of this system : tech@mesgenbio.com

Description

Distinguishing between live and dead bacteria is very important for investigation of growth control and bacteria death. The Live-Dead bacterial Cytotoxicity Kit provides the ready-to-use reagents for convenient discrimination between live and dead bacteria. The kit utilizes FDA, a cell-permeable green fluorescent dye (Ex/Em = 494/521 nm), to stain live bacteria. Dead bacteria can be easily stained by propidium iodide (PI), a cell non-permeable red fluorescent dye (Ex/Em = 535/615). Stained live and dead bacteria can be visualized by fluorescence microscopy using a band-pass filter.

Kit compose

	100 tests	500 tests	1000 tests
FDA Solution	100µL	500µL	1000µL
Pl Solution	200µL	1000µL	2000µL
Bac buffer	20mL	100mL	200mL

Procedure

Sample Prepare

- 1. Equilibrate all solutions to room temperature before use. Vortex bacteria suspension, FDA, and PI prior to use.
- 2. Spin down bacteria and, resuspend the pellet in Bac buffer.

Note: bacteria density in the Bac buffer approximately 10⁶/ml is recommended. Density condition should be optimized.

3. Combine 17 μL of Bacteria sample with 1 μL of FDA and 2 μL of Pl.

MesGen Biotechnology

Tel : 86-21-56620378 | Chi tech@mesgenbio.com | ww





Version 2.0

- 4. Incubate for 15-30 minutes at room temperature in the
- dark and proceed to sample measurement.

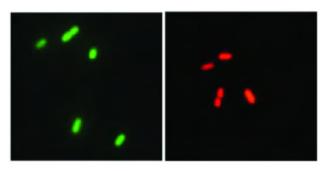
Do not eat Store at -20° C & in the dark.

Sample Measurement

- 1. Wash the stained bacteria sample by H_2O for 2-3 times.
- Centrifuge the sample, 2000rpm,1min. Resuspend the pellet by PBS, approximately 10~20µL.
- 3. Transfer sample solution on the glass slide and cover the glassslip carefully.
- Stained live and dead bacteria can be visualized by fluorescence microscopy using a band-pass filter.
 FDA (Ex/Em = 494/521 nm)
 Propidium iodide (PI) (Ex/Em = 535/615)

Storage condition

-20°C. Protect from light.



E. coli under different conditions by FDA-PI double staining
Left : live Right : dead

For Research Use Only. Not For Use In Diagnostic Procedures. 产品仅供科学研究 禁止用于临床诊断、治疗