

New

LIFE SCIENCE



RNA Staining Reagent T-Fluor 480

T-Fluor 480 [for RNA staining]

1g [T4072]

Advantages

- Stains RNA in bacteria.
- Wavelengths of RNA stained with T4072:
 $\lambda_{ex, max} = 450 \text{ nm}$, $\lambda_{em, max} = 485 \text{ nm}$
- Very high fluorescence intensity.
The signal can be observed without washing.
- Tested for RNA staining.

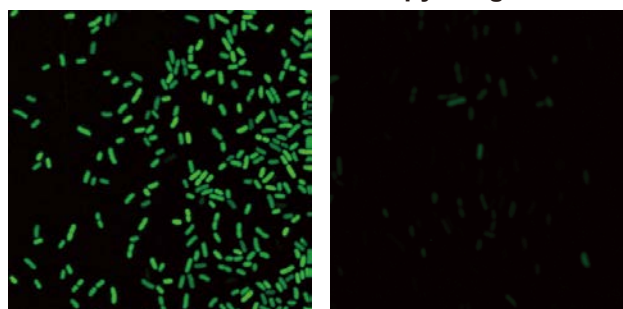
Application: RNA staining of *E. coli* with T4072

[Procedure]

1. Cultivate *E. coli* BW25113 on LB medium at 37°C overnight.
2. Add 1/100 volume of culture medium to LB medium with or without 100 µg/mL rifampicin (*) and incubate at 37°C for 4 hours.
3. After removing the supernatant by centrifugation, add PBS containing 6.5 mg/mL T4072 to the pellet and stain at room temperature for 5 minutes.
4. Observed under a fluorescence microscope using a filter for GFP.

* Rifampicin: RNA synthesis inhibitor

Fluorescence microscopy images



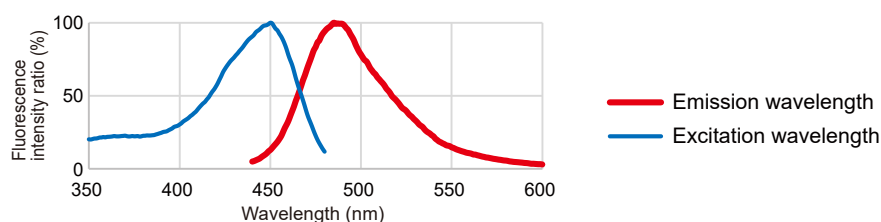
Rifampicin(-)

Rifampicin(+)

(The images were provided by Dr. Shinya Sugimoto.)

RNA staining was observed in rifampicin(-) medium where RNA synthesis was not inhibited.

Fluorescence spectra of RNA stained with T4072



Related Product

Rifampicin

5g / 25g [R0079]

Ordering and Customer Service

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