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© Using the Confocal Microscope with *Enterococcus faecalis* and NAO dye.

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¹In-house protocol

1 Works for me This protocol is published without a DOI.

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ABSTRACT

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ABSTRACT

Using the Confocal Microscope with Enterococcus faecalis and NAO dye.

Steps

- Prepare an Enterococcus faecalis overnight culture.
 - In 10mL of Brain Heart Infusion (BHI) broth put in 1 colony.
- 2 Next morning, dilute overnight E. faecalis to an OD600 of 0.01 in fresh BHI.

3	Check OD600 after 3 hours. ■ Looking for an OD ~0.4.
4	Isolate 4mL of log phase culture and place in BD Facs tube.
5	Centrifuge 3500 RPM 5 to 10 minutes.
6	Suspend pellet in 1mL of sterilized 1X PBS.
7	Stain with NAO dye for 30 minutes in the dark at room temp. Use 7.5uL of a 10-3diluted NAO stock to give stain with 1.5uM NAO. ■ The initial concentration of NAO is 100mg in 1mL of DMSO or 212mM in 1mL of DMSO. ■ Make a 1000 fold dilution in DMSO 1uL → 999uL DMSO ■ This dilution is stable if kept wrapped in tin foil at room temp.
8	After 30 minutes, flood stained cells with 3mL of 1X PBS.
9	Centrifuge 3500 RPM 5 to 10 minutes.
10	Suspend pellet in 4 mL of 1X PBS.
11	Centrifuge 3500 RPM 5 to10 minutes.
12	Suspend pellet in 15uL of 1X PBS.
13	Prepare slides with a poly-L-lysine fixative
14	Add 9uL of stained cells to the fixative.
15	Add a drop of Anti-Fade reagent

• Supplement as needed.

- 16 Place a coverslip.
 - Use Kim wipes on both sides of the slide and apply pressure to reduce the amount of floating bacteria.
- 17 Seal coverslip with VALAP. Smear it around the edges.
 - Heat up Vaseline, Lanolin, and Parafin
- 18 Observe on Confocal.