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 We use this protocol and it's working

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ABSTRACT

We use Na₂SO₃ to create low-oxygen conditions in our experiment.

MATERIALS

LB medium

Na₂SO₃

IPTG

SMART SENSOR AR8010+ Dissolved Oxygen Meter

Tecan Spark[®] multimode microplate reader

SAFETY WARNINGS

Please wear gloves for the experiment.

Changes of dissolved oxygen with time in the LB medium w...

- 1 Prepare LB medium with different concentrations of Na_2SO_3 .

1.1

Na ₂ SO ₃ (100g/L)	LB medium
0μL	20mL
20μL	20mL
40μL	20mL
100μL	20mL
200μL	20mL
400μL	20mL

- 2 Use Dissolved Oxygen Meter to measure dissolved oxygen of LB medium with different concentrations of Na_2SO_3 in 0h、1h、2h、5h.

β-Gal enzyme activity determination—Changes of ABS with...

- 3 Add 50ml LB medium and 200ul bacteria solution to conical flask, shake overnight at 37°C.
- 4 Take 5 ml in 5 50ml centrifuge tubes separately, centrifuge the bacteria at 3000xg at room temperate for 5 min.Discard the supernatant.
- 5 Prepare LB medium with different concentrations of Na_2SO_3 .

dd Na₂SO₃ to LB medium.

Na ₂ SO ₃ (100g/L)	LB medium
0ul	20ml
100ul	20ml
200ul	20ml
400ul	20ml
800ul	20ml

- 6 Add LB medium with different concentrations of Na₂SO₃ to 5 50ml centrifuge tubes separately.
- 7 Add 2ul IPTG to 5 50ml centrifuge tubes separately, and resuspend. Shake 5h at 37°C.
- 8 Use Microplate Reader to measure ABS with different concentrations of Na₂SO₃ in 0 h, 1h, 2h, 5h.