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Protocol status: Working

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β -galactosidase activity assay

PLOS One

Yuan Yao¹

¹Inner Mongolia People`s Hospital

Yuan Yao

MATERIALS

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Nitrophenyl b-d-galactopyranoside **P212121**

Magnesium Sulfate (MgSO₄) Solution - 6.0 ml **New England Biolabs Catalog #B1003S**

Sodium Phosphate monobasic **Contributed by users**

Sodium phosphate dibasic **Sigma Aldrich Catalog #7558-79-4**

500g Sodium Carbonate; Na₂CO₃ (anhydrous) **G-Biosciences Catalog #RC-125**

KCl **Contributed by users**

1% β -mercaptoethanol **BBI Biotech**

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PROTOCOL integer ID:
12323

Keywords: β -galactosidase
activity assay

Exponentially growing cells (1 ml) at 37°C in ABTGcasa med.

1

Mix with cold toluene (0.1 ml) and kept on ice immediately

2

0.2 ml toluene-treated sample was added to 1 ml Z buffer (...)

3

The reaction was performed at 30°C until the color changed..

4

Stop by addition of 0.5 ml 1 M Na₂CO₃

5

The absorbance at OD420 was measured

6

The β -galactosidase activity was calculated by $1000 \times OD420 \times$

7