1.Prepared the medium

LB-medium: Yeast extract 5g/L, Tryptone 10g/L, NaCl 10g/L

Autoinduction medium：

The media include: media components, buffer components and induction components.

Media components

|  |  |
| --- | --- |
| Composition | Weight |
| Peptone (aus Casein, Roth) | 12 g |
| Yeast extract (Merck) | 24 g |
| Glycerol (Roth) | 5 g |
| Add dd. H2O to 800 mL | |

Buffer components

|  |  |  |
| --- | --- | --- |
| Composition | Volume | |
| Kpi-Buffer, pH 7, 1 M | | |
| K2HPO4 / KH2PO4 (Roth, v:v=2:1) | | 1. mL |

Induction components

|  |  |
| --- | --- |
| Composition | Volume |
| 50 g/LGlucose·H2O (Biochemica Applichem ) | 10 mL |
| 20 g/L Lactose [α-Lactose monohydrate (Sigma)] | 100 mL |

Autoclave each component separely

Mix components to 1 L of medium (sterile work):

|  |  |
| --- | --- |
| Composition | Volume |
| Media component | 800 mL |
| Buffer component | 90 mL |
| Glucose stock | 10 mL |
| Lactose stock | 100 mL |
| Total | 1000 mL |