**ZY 950ml 121℃ autoclaved**

|  |  |  |  |
| --- | --- | --- | --- |
| Volume  ZY | Tryptone | Yeast extract | Water |
| 950ml | 10g | 5g | Add to 950ml |

**50x M(1xM=50mM PO4,50mM NH4Cl,5mM Na2SO4)**

Add water to 500ml ,121℃ autoclaved

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Volume  50xM | Na2HPO4·12H2O | KH2PO4 | NH4Cl | Na2SO4 |
| 500ml | 223g(25mM) | 85g(25mM) | 66.88g | 17.7g |
| 400ml | 178.4g | 68g | 53.5g | 14.1g |

**50x 5052(5052=0.5%Glycerol,0.05%Glucose,0.2%α-Lactose)**

Add water to 500ml ,121℃ autoclaved

|  |  |  |  |
| --- | --- | --- | --- |
| Volume  50x5052 | Glycerol | Glucose | α-Lactose) |
| 500ml | 125g | 12.5g | 50g |
| 400ml | 100g | 10g | 40g |

**1M MgSO4 100ml**

MgSO4·7H2O 24.65g(0.1M) Sterilized by filtration

**1000x Trace elements solution 100ml**

Dissolve 0.1M FeCl3 in 50ml of 100x diluted concentrated HCL

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| FeCl3·6H2O | CaCl2·2H2O | MnCl2·4H2O | ZnSO4·7H2O | CoCl2·6H2O | CuCl2·2H2O | NiCl2·6H2O | Na2MoO4·2H2O | Na2SeO3 | H3BO3 |
| 1.35g | 0.32g | 0.2g | 0.3g | 0.05g | 0.04g | 0.05g | 0.05g | 0.04g | 0.02g |
| 50ml | 2ml | 1ml | 1ml | 1ml | 2ml | 1ml | 2ml | 2ml | 2ml |
| 2.7g /100ml | 15.8g  /100ml | 19.8g  /100ml | 28.8g  /100ml | 4.76g  /100ml | 1.7g  /100ml | 4.76g  /100ml | 2.42g  /100ml | 1.73g  /100ml | 0.62g  /100ml |