

PMSF (sigma): 0.02M 1ml

FW= 174.2

0.0035gr PMSF in 1ml isopropanol

Effective concentration 0.2mM (dilution of 1:100 from 0.2M stock)

Stable for months at 4°C

Tetracycline (sigma): 20mg/ml 10ml

0.2gr tetracycline in 10ml methanol 100%

Filter sterilize, divide into aliquots and store at -20°C.

Cover with aluminum because antibiotic is light sensitive.

Store at -20°C.

Ampicillin 100mg/ml:

FW=371.4

Dissolve 3gr in 30ml DDW

Filter sterilize, divide into aliquots and store at -20°C

Kanamycin 50mg/ml:

FW=582.58

Dissolve 0.5gr in 10ml DDW

Filter sterilize, divide into aliquots and store at -20°C

Chloramphenicol 34mg/ml: WARNING: carcinogen

FW=323.13

Dissolve 0.34gr in 10ml ethanol absolute.

Filter sterilize, divide into aliquots and store at -20°C

IPTG 1M 5ml:

Molecular weight: 238.3

1.2gr IPTG

Suspend in 5ml DDW

Filter sterilize, divide into aliquots and store at -20°C

DTT 1M 5ml:

FW=154.25

Dissolve 1.54gr in 10ml DDW

Divide into aliquots and store at -20°C.

Antibiotic requirements for bacteria selection:

TOP1: 50µg/ml Tetracycline

BL21: 100µg/ml Chloramphenicol

Rosetta: 12.5µg/ml Tetracycline

Kanamycin 15µg/ml

34µg/ml Chloramphenicol

| | Tetracycline (20mg/ml) | | Chloramphenicol (34mg/ml) | | Kanamycin (50mg/ml) | |
|----------------------|-----------------------------------|--------|--------------------------------------|--------|--------------------------------|--------|
| LB volume | 50ml | 1000ml | 50ml | 1000ml | 50ml | 1000ml |
| TOP1 | 125µl | 2.5ml | | | | |
| BL21 | | | 147µl | 2941ml | | |
| Rosetta | 31µl | 625µl | 50µl | 1000µl | 15µl | 300µl |