COMPOSITION OF MEDIA AND REAGENTS

SIMMONS CITRATE AGAR **HI-MEDIA**

Ingredients	**Quantity(gm/lit)**
Magnesium sulphate hepta hydrate	0.2g
Ammonim di hydrogen phosphate	1g
Di cregpotassium hydrogen phosphate	1g
Trisodium citrate dehydrate	2g
NaCl	5g
Bromothymol blue	0.08g
Agar	15g
Distill water	1000ml

pH 6.8±2

CLED AGAR **HI-MEDIA**

Ingredients	**Quantity(gm/lit)**
Peptic digest of animal tissue	4g
Casein enzymichydrosylate	4g
Beef extract	3g
Lactose	10g
L- cystine	0.128g
Bromothymol blue	0.02g
Agar	15g

pH(at 25^{o}C) 7.3±0.2

NUTRIENT AGAR	**HI-MEDIA**
Ingredients	**Quantity(gm/lit)**
Peptic digest of animal tissue	5g
Beef extract	1g
Yeast extract	2g
Sodium chloride	5g
Agar	15g
pH (at 25^{o}C) 7.4±0.2	

PEPTONE	**HI-MEDIA**
Ingredients	**Quantity(gm/lit)**
Peptic digest of animal tissue	1gm
NaCl	0.5gm

TRIPLE SUGAR IRON AGAR	**HI-MEDIA**
Ingredients	**Quantity(gm/lit)**
Casein enzymichydrolysate	15.0 g
Peptic digest of animal tissue	5.0 g
Meat extract	3g
Yeast extract	3g
NaCl	5g
Lactose monohydrate	10g
Sucrose	10g

Glucose anhydrous	1g
Ferric ammonium citrate anhydrous	0.5g
Sodium thiosulphate anhydrous	0.5g
Phenol red	0.024g
Agar agar	12g
Distill water	1000ml
Ph 7.2±0.2	

NUTRIENT AGAR	**HIMEDIA**
Ingredients	**Quantity(gm/lit)**
Peptic digest of animal tissue	5g
Beef extract	1.5g
Yeast extract	1.5g
NaCl	5g
Agar agar	15g
Distill water	1000ml
Ph 7.4±0.2	

MUELLER HINTON AGAR	**HI-MEDIA**
Meat infusion powder	2g
Casamino acids	17.5g
Starch soluble	5g
Agar agar	17g

Distill water	1000ml

pH 7.3±.2

MAC CONKEY AGAR	**HI-MEDIA**
Peptic digest of animal tissue	1.5g
Casein enzymichydrolysate	1.5g
Pancreatic digest of gelatin	17g
NaCl	5g
Lactose monohydrate	10g
Bile salts	1.5g
Neutral red	0.03g
Crystal violet	0.001g
Agar agar	13.5g
Distill water	1000ml

pH 7.1±.2

NUTRIENT BROTH	**HI-MEDIA**
Peptic digest of animal tissue	10g
NaCl	5g
Beef extract	10g
Distill water	1000ml

pH 7.3±1

TRYPTONE **HI-MEDIA**

Pancreatic digest of casein

Glycerol ($C_3H_8O_3$) **HI-MEDIA**

Acetic acid glacial extrapure ($C_2H_4O_2$) **HI-MEDIA**

Urea agar base(christensen) **HI-MEDIA**

Gram stain **HI-MEDIA**

Crystal violet

Solution A

Ingredients	**Quantity(gm/lit)**
Crystal violet (90% dye content)	2g
Ethyl alcohol (95%)	20ml

Solution B

Ammonium oxalate	0.8g
Distilled water	80ml

Gram's iodine

Ingredients	**Quantity(gm/lit)**
Iodine	1g
Potassium iodide	2g
Distilled water	80ml

Ethyl alcohol (95%)

Ethyl alcohol (100%)	95ml
Distilled water	5ml

Saffranine

Saffranine (25% solution in 95% ethyl alcohol)	10ml
Distilled water	100ml

ANTIBIOTICS USED	**HI-MEDIA (µg/disc)**
• Nalidixic acid	30
• Norfloxacin	10
• Ciprofloxacin	5
• Ofloxacin	5
• Levofloxacin	5
• Sparfloxacin	5
• Lomefloxacin	5
• Gatifloxacin	5
• Gemifloxacin	5
• Ampicillin	10
• Co-trimoxazole	25
• Tigecycline	15
• Gentamicin	120
• Amikacin	30
• Imipenem	10
• Ceftazidime	30
• Cefotaxime	30
• Ceftriaxone	30
• Polymixin B	300U

SOC medium preparation:

Ingredients	Quantity(gm/lit)
2%w/v tryptone	20 g
0.5%w/v yeast extract	5g
10mM NaCl	0.584g
2.5mM KCl	0.186g
10mM $MgCl_2$	0.952g
10mM $MgSO_4$	1.204g
0.4% glucose	0.4g
Distilled water	1000ml
Tris borate EDTA buffer	
Agarose	**HI-MEDIA**
Nuclease free water	**HI-MEDIA**
0.1M $CaCl_2$	
DNA ladder	**MERCK**
Plasmid mini prep kit	**QIAGEN**