Helicobacter pylori

Helicobacter pylori

rapid urease

가

Helicobacter pylori(*H. pylori*)

phosphate buffered

90% *H. pylori* saline(PBS) Stuart's

20% 4

1994 NIH *H. pylori* : 가 5%

, 7% , egg yolk emulsion(EYE)

가 bismuth, metronidazole, , chocolate

amoxicillin (triple therapy) 91% (vancomycin 10mg/L, cefsulodin 5mg/L, trimethoprim 5mg/L, amphotericin B 5mg/L) 가

, metronidazole 65%

metronidazole 5%

metronidazole clarithromycin 가

3 *H. pylori* metronidazole 가

clarithromycin 가

H. pylori

H. pylori :

H. pylori (1997 microfuge pestle

), *H. pylori* 4

metronidazole 46.2%

H. pylori GasPak

가 jar kit(CampyPak

H. pylori Plus, Becton Dickinson, USA) jar

가 37 , CO₂ 3

GasPak jar

0.1-0.5mm

3 -4

H. pylori

: *H. pylori*

90% , urease ,

catalase , oxidase *H. pylori*

: *H. pylori*

37

5%
EYE

coccoid form

glycerol 15%가 BHI

-70

H. pylori 가
clarithromycin, amoxicillin
metronidazole
10% 90%
46.2%
amoxicillin
clarithromycin
amoxicillin clarithromycin

metronidazole

H. pylori NCCLS

가
H. pylori

가
, E test

가

metronidazole

가
clarithromycin
100%
. E test

가
96-well plate

Table 1. Contents of nonselective egg yolk emulsion agar

Ingredient	Amount
Columbia agar(Oxoid, UK)	39 g
Egg yolk emulsion(Home-made)	100 mL
IsoVitaleX(Becton Dickinson, USA)	10 mL
Triphenyltetrazolium chloride(Sigma, USA)	40 mg
Distilled water	890 mL

96-well plate
6

BHI 가

1.

96-well plate(round bottom) well fetal
bovine serum(FBS) 5% triphenyltetrazolium 40 mg/mL
brain heart infusion(BHI) broth 160 uL well

Metronidazole 20 uL(10) well
가 가 0.25, 0.5, 1, 2, 4, 8, 16, 32, 64, 128
ug/mL (well).
5% 3

FBS 5%가 BHI
McFarland No. 2(6×10^8 /mL)
20 uL well ()
well).
, 37 3

H. pylori

2. E test

E test

5%
가

EYE

가
E test

strip

가

EYE

가

metronidazole strip

, 37 3

1. Lee A and Megrad F eds. *Helicobacter pylori: techniques for clinical diagnosis and basic research. 1st ed. London: WB Saunders, 1996.*
2. Buck GE. *Camylobacter pylori and gastroduodenal disease. Clin Microbiol Rev 1990;3:1-12.*
3. Dunn BE, Cohen H, Blaser M. *Helicobacter pylori. Clin Microbiol Rev 1997;10:720-41.*
4. Westblom T, Madan E, Midkiff B. *Egg yolk emulsion agar, a new medium for the cultivation of Helicobacter pylori. J Clin Microbiol 1991;29:819-21.*
5. , , , , . *Helicobacter pylori* . *1997;17:1060-7.*