

살모넬라 Rapid 검정법

Rambach, Latex, MUCAP 검정법의 Sensitivity/Specificity 비교

1 Salmonella 74종(74개 균주)에 대한 Rapid 검정법 비교 실험 결과

균주명(건수)	Rambach	Latex	MUCAP	균주명(건수)	Rambach	Latex	MUCAP	균주명(건수)	Rambach	Latex	MUCAP
S.abortusequi (1)	Red	POS	POS	S.braenderup (1)	Red	POS	POS	S.panama (1)	Red	POS	POS
S.agona (3)	Red	POS	POS	S.corvallis (1)	Red	POS	POS	S.poona (1)	Red	POS	POS
S.anatum(1)	Red	POS	POS	S.derby (1)	Red	POS	POS	S.rissen var O14 pos (1)	Red	POS	POS
S.bechuana (1)	Red	POS	POS	S.emek (1)	Red	POS	POS	S.schleissheim (1)	Red	POS	POS
S.brandenburg (1)	Red	POS	POS	S.godesberg (1)	Red	POS	POS	S.sendai (1)	Red	POS	POS
S.budapest (1)	Red	POS	POS	S.hadar (2)	Red	POS	POS	S.senftenberg (1)	Red	POS	POS
S.california (1)	Red	POS	POS	S.havana (1)	Red	POS	POS	S.thompson (1)	Red	POS	POS
S.dublin (1)	Red	POS	POS	S.heidelberg (1)	Red	POS	POS	S.typhimurium (3)	Red	POS	POS
S.enteritidis (4)	Red	POS	POS	S.kapemba (1)	Red	POS	POS	S.virchow (1)	Red	POS	POS
S.essen (1)	Red	POS	POS	S.kentucky (1)	Red	POS	POS	S.bertha (1)	Red	POS	POS
S.gallinarum (1)	Red	POS	POS	S.krefeld (1)	Red	POS	POS	S.blockley (1)	Red	POS	POS
S.infantis (1)	Red	POS	POS	S.meleagridis (1)	Red	POS	POS	S.typhi (1)	Red	POS	POS
S.isangi (1)	Red	POS	POS	S.mishmarhaemek (1)	Red	POS	POS	S.paratyphi A (1)	Red	POS	POS
S.lille (1)	Red	POS	POS	S.moscow (1)	Red	POS	POS	S.paratyphi B (1)	Red	POS	POS
S.london (1)	Red	POS	POS	S.nessziona (1)	Red	POS	POS	S.rostock (1)	Red	POS	POS
S.maricopa (1)	Red	POS	POS	S.newport (1)	Red	POS	POS	S.wassenaar (1)	Red	POS	POS
S.mbandaka (1)	Red	POS	POS	S.nima (1)	Red	POS	POS	S.marina (1)	Red	Neg	POS
S.monschaui (1)	Red	POS	POS	S.nottingham (1)	Red	POS	POS	S.wayne (1)	Red	Neg	POS
S.montevideo (1)	Red	POS	POS	S.pensacola (1)	Red	POS	POS	S.saint paul (1)	Red	POS	POS
S.muenchen (1)	Red	POS	POS	S.rissen (1)	Red	POS	POS	S.tournai (1)	Red	POS	POS
S.naestved (1)	Red	POS	POS	S.oranienburg (1)	Red	POS	POS	S.uganda (1)	Red	POS	POS
S.newmexico (1)	Red	POS	POS	S.orion (1)	Red	POS	POS	S.foulpointe (1)	Red	Neg	POS

2 Non-Salmonella 27종(101개 균주)에 대한 Rapid 검정법 비교 실험 결과

균주명(건수)	Rambach	Latex	MUCAP	균주명(건수)	Rambach	Latex	MUCAP	균주명(건수)	Rambach	Latex	MUCAP
E.coli (20)	Blue	Neg	Neg	E.sakazakii (1)	Blue	Neg	Neg	Pseudo.aeruginosa (4)	Orange	Neg	POS
E.adecarboxylata (1)	Blue	Neg	Neg	Hafnia alvei (1)	Blue	Neg	Neg	Pseudomonas spp (1)	Orange	Neg	POS
E.hermannii (1)	Blue	Neg	Neg	Yersinia enterocolitica (24)	Blue	Neg	Neg	Chromobacter violaceum (1)	Orange	Neg	POS
Citrobacter diversus (1)	Blue	Neg	Neg	Buttiauxella agrestis (1)	Blue	Neg	Neg	Proteus mirabilis (1)	Colourles	Neg	Neg
Klebsiella oxytoca (2)	Blue	Neg	Neg	Serratia marcescens (2)	Blue	Neg	POS	P.vulgaris (1)	Colourles	Neg	Neg
K.pneumoniae (4)	Blue	Neg	Neg	S.fonticola (2)	Blue	Neg	POS	Morganella morgani (2)	Orange	Neg	Neg
Enterobacter cloacae (8)	Blue	Neg	Neg	S.liquefaciens (2)	Blue	Neg	POS	Citrobacter freundii (3)	Violet	Neg	Neg
E.aerogenes (1)	Blue	Neg	Neg	Aeromonas spp (4)	Blue	Neg	POS	E.cloacae (1)	Blue	POS	Neg
E.amnigenus (5)	Blue	Neg	Neg	Plesiomonas shigelloides(4)	Blue	Neg	POS	Providencia rettgeri (3)	Blue	POS	Neg

3 실험 결과 분석

	Sens (%)	Spec (%)
MUCAP	100	80
Microgen	96	96
Rambach	91	100

- ✓ 각 검사법은 (Article) Salmonella spp 의 여러가지 검정법 참조
- ✓ Sens : 100 % 인 MUCAP 방법과 Spec : 100% 인 Rambach를 함께 활용할 경우 효율적인 검정법이 될 것임.
- ✓ 본 자료의 출처는 : Comparison of three rapid screening methods for Salmonella spp: 'MUCAP Test, Microgen Latex and Rambach Agar'. Manafi et al, Letters in Applied Microbiology 1992, 14, 163-166