Fig. 1

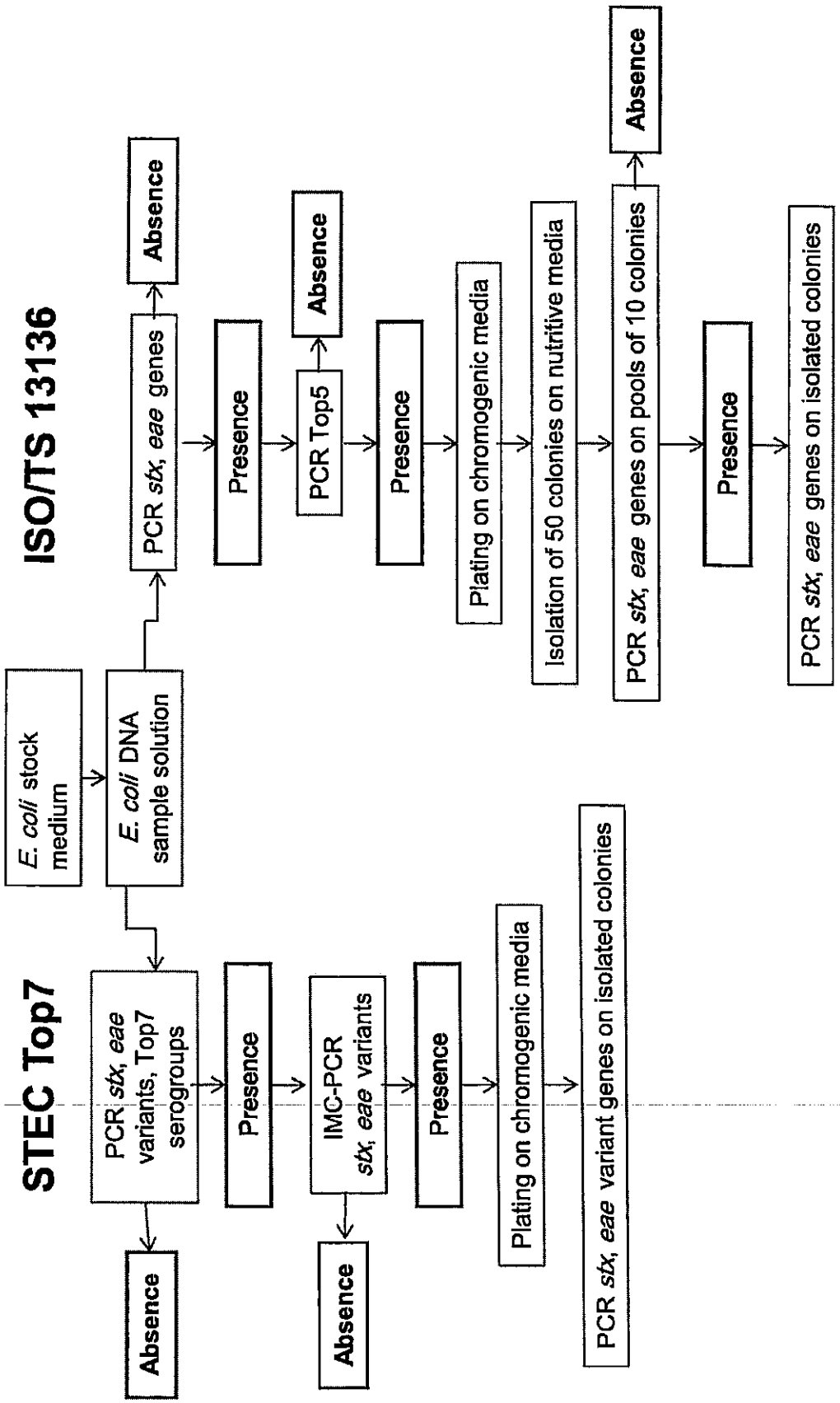

STEC Top7
E. coli stock medium
E. coli DNA sample solution
PCR stx, eae variants, Top7 serogroups
Absence
Presence
IMC-PCR stx, eae variants
Absence
Presence
Plating on chromogenic media
PCR stx, eae variant genes on isolated colonies
ISO/TS 13136
PCR stx, eae genes
Absence
Presence
PCR Top5
Absence
Presence
Plating on chromogenic media
Isolation of 50 colonies on nutritive media
PCR stx, eae genes on pools of 10 colonies
Absence
Presence
PCR stx, eae genes on isolated colonies

Fig. 2

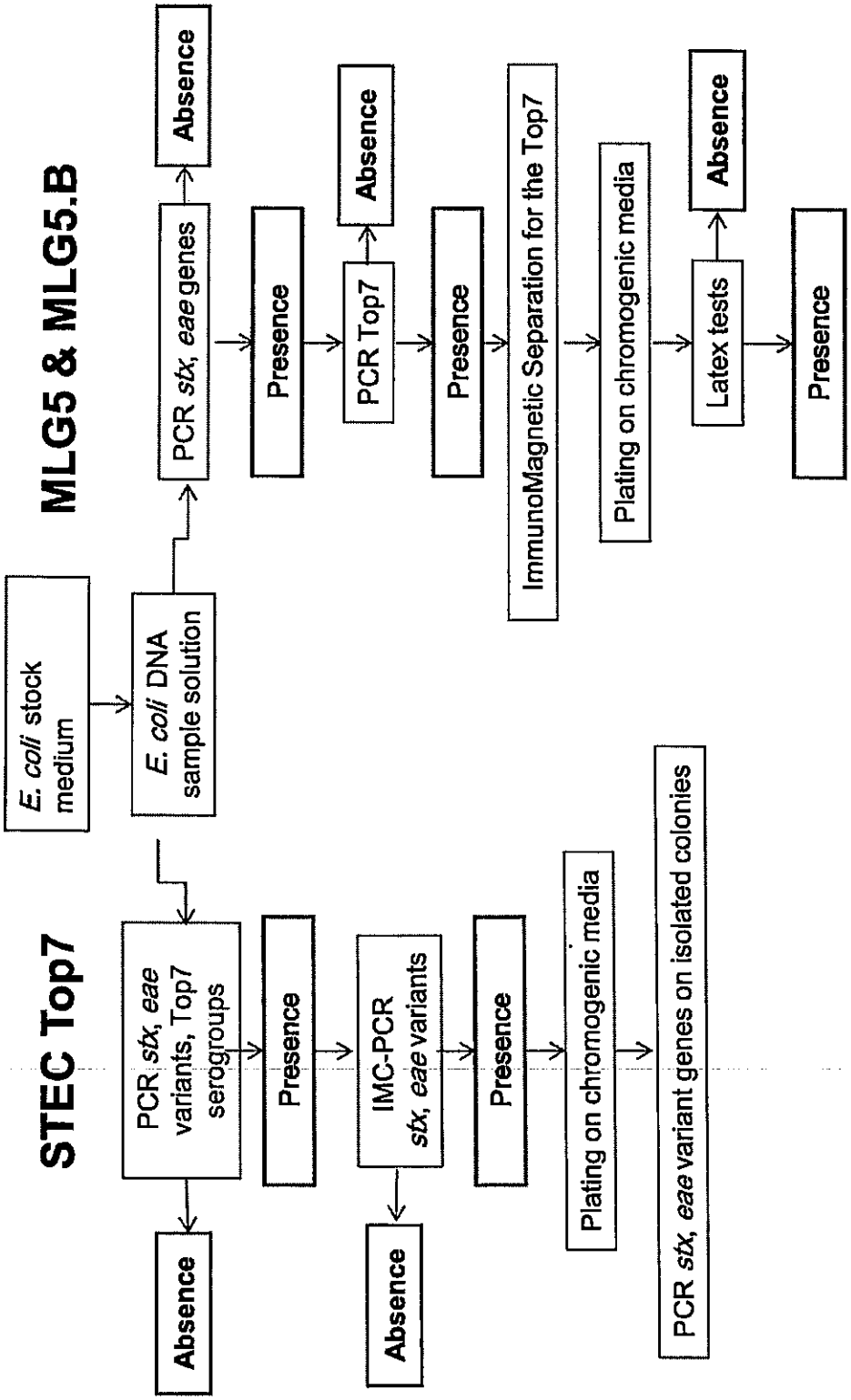

STEC Top7
MLG5 & MLG5.B
E. coli stock medium
E. coli DNA sample solution
PCR stx, eae variants, Top7 serogroups
Absence
Presence
IMC-PCR stx, eae variants
Absence
Presence
Plating on chromogenic media
PCR stx, eae variant genes on isolated colonies
PCR stx, eae genes
Absence
Presence
PCR Top7
Absence
Presence
ImmunoMagnetic Separation for the Top7
Plating on chromogenic media
Latex tests
Absence
Presence

FIG.3

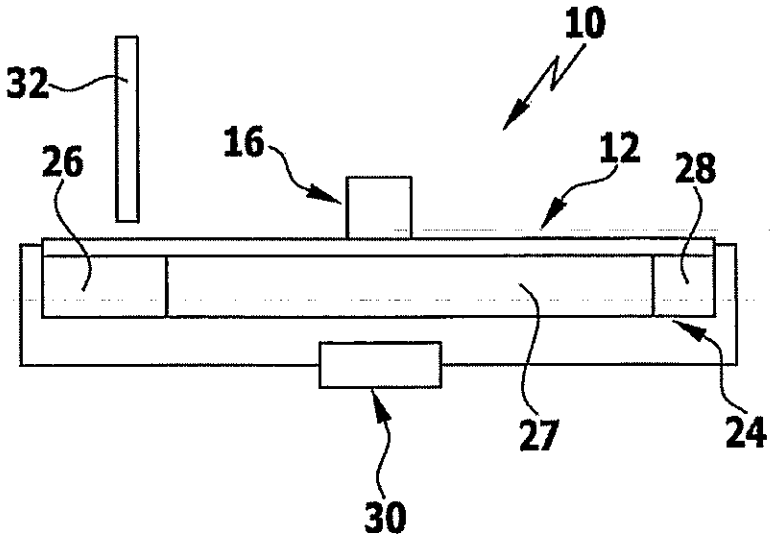


FIG.4

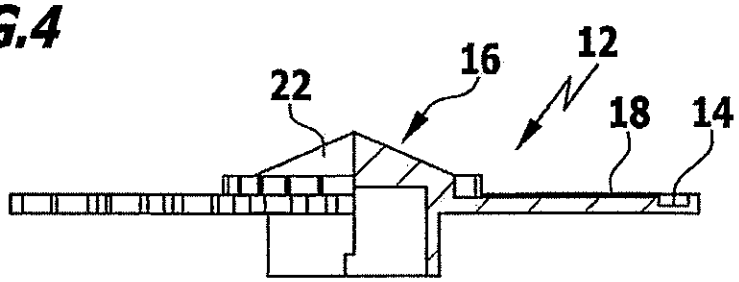


FIG.5

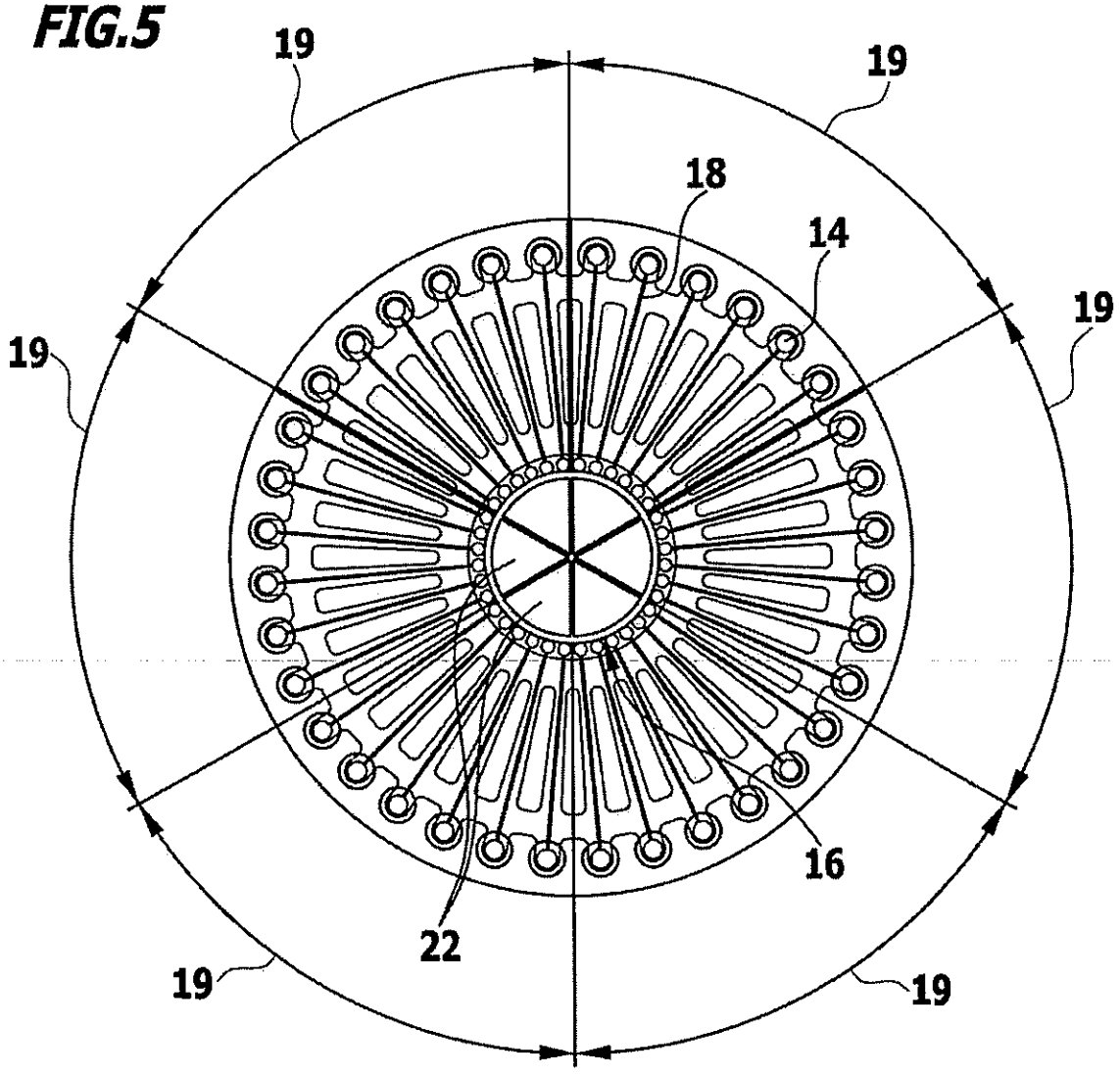
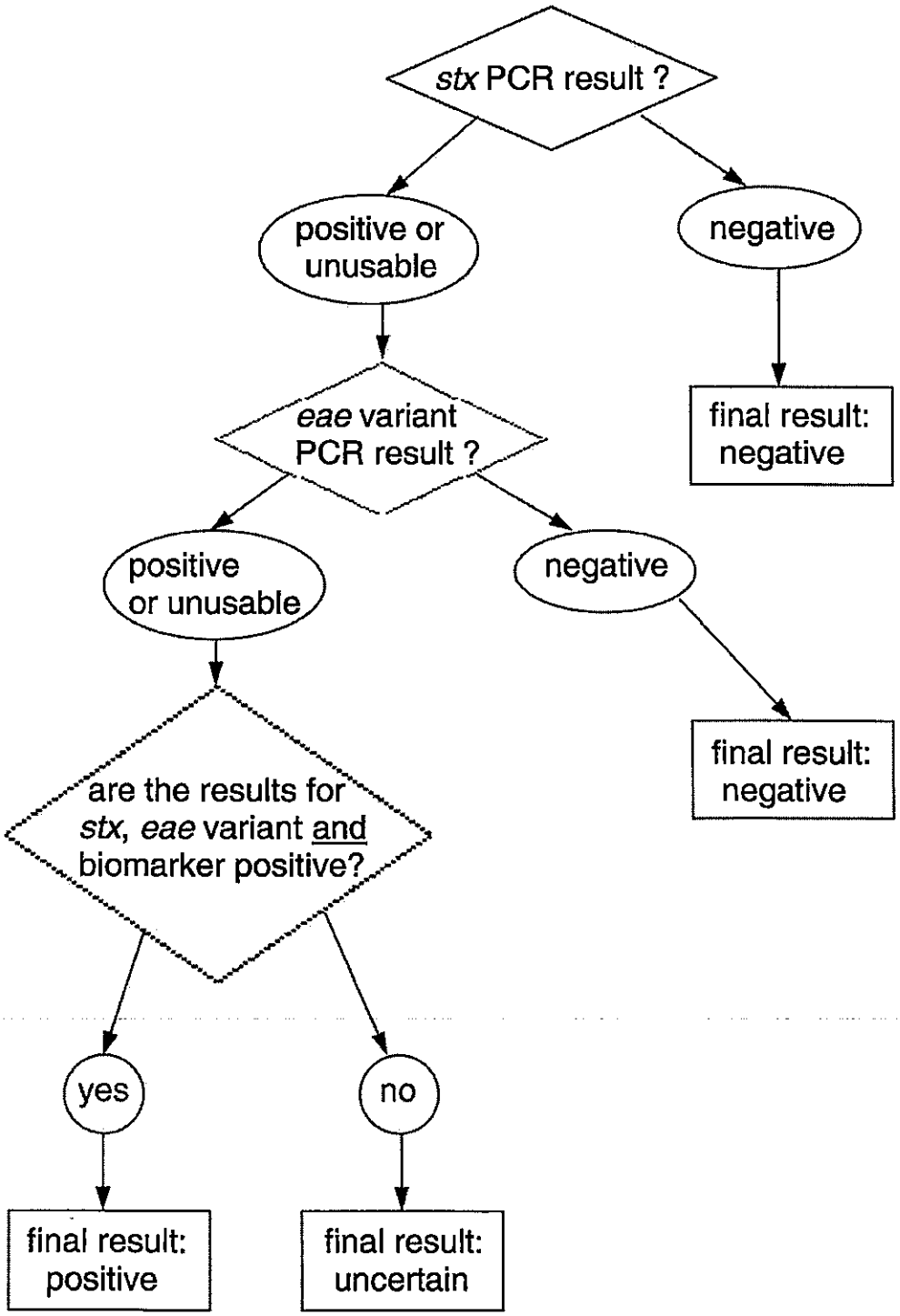


Fig. 6


stx PCR result ?
positive or unusable
negative
final result: negative
eae variant PCR result ?
positive or unusable
negative
final result: negative
are the results for *stx*, *eae* variant and biomarker positive?
yes
no
final result: positive
final result: uncertain