Claims

[Claim 1]

A primer pair for detecting a mecA gene (methicillin-resistance gene), wherein the primer pair is one primer pair selected from the group consisting of (a~~) to (c) below.~~),

(a) A primer pair comprising a combination of SEQ ID NO:3 and SEQ ID NO:7, a combination of SEQ ID NO:2 and SEQ ID NO:9, a combination of SEQ ID NO:1 and SEQ ID NO:8, a combination of SEQ ID NO:1 and SEQ ID NO:9, a combination of SEQ ID NO:4 and SEQ ID NO:11, a combination of SEQ ID NO:5 and SEQ ID NO:12.

[Claim 2]

The primer pair according to claim 1, wherein the primer pair is a primer pair consisting of a combination of SEQ ID NO: 6 and SEQ ID NO: 10.

[Claim 3]

A mecA gene detection kit comprising a primer pair, wherein said primer pair is at least one primer pair selected from the group consisting of (a) below,

(a) A primer pair comprising a combination of SEQ ID NO:3 and SEQ ID NO:7, a combination of SEQ ID NO:2 and SEQ ID NO:9, a combination of SEQ ID NO:1 and SEQ ID NO:8, a combination of SEQ ID NO:1 and SEQ ID NO:9, a combination of SEQ ID NO:4 and SEQ ID NO:11, a combination of SEQ ID NO:5 and SEQ ID NO:12, a combination of SEQ ID NO:6 and SEQ ID NO:10 or a combination of SEQ ID NO:6 and SEQ ID NO:12~~,~~.

~~(b) In (a) above, a primer pair in which one or two bases are added, deleted or substituted to the extent that a part of the base sequence of one or both primers does not impair the function as a primer,~~

~~(c) A primer pair comprising a complementary sequence corresponding to the base sequence of (a) or (b) above.~~

~~[Claim 2]~~

~~The primer pair according to claim 1, wherein the primer pair is a primer pair consisting of a combination of SEQ ID NO: 6 and SEQ ID NO: 10, or a primer pair in which one or two bases are added, deleted, or substituted to~~

~~the extent that a part of the base sequence of one or both primers of the combination does not impair the function as a primer.~~

~~[Claim 3]~~

~~A mecA gene detection kit comprising a primer pair, wherein said primer pair is at least one primer pair selected from the group consisting of (a) to (c) below.~~

~~(a) A primer pair comprising a combination of SEQ ID NO:3 and SEQ ID NO:7, a combination of SEQ ID NO:2 and SEQ ID NO:9, a combination of SEQ ID NO:1 and SEQ ID NO:8, a combination of SEQ ID NO:1 and SEQ ID NO:9, a combination of SEQ ID NO:4 and SEQ ID NO:11, a combination of SEQ ID NO:5 and SEQ ID NO:12, a combination of SEQ ID NO:6 and SEQ ID NO:10 or a combination of SEQ ID NO:6 and SEQ ID NO:12,~~

~~(b) In (a) above, a primer pair in which one or two bases are added, deleted or substituted to the extent that a part of the base sequence of one or both primers does not impair the function as a primer,~~

~~(c) A primer pair comprising a complementary sequence corresponding to the base sequence of (a) or (b) above.~~

[Claim 4]

The kit according to claim 3, wherein the primer pair is a primer pair consisting of a combination of SEQ ID NO: 6 and SEQ ID NO: 10~~, or a primer pair in which one or two bases are added, deleted, or substituted to the extent that a part of the base sequence of one or both primers of the combination does not impair the function as a primer~~.

[Claim 5]

The kit according to claim 3 or 4 comprising at least one of an enzyme for PCR, a reagent for PCR and an instrument for PCR.

[Claim 6]

A detection method of a mecA in a sample, comprising:

a PCR step of performing PCR using DNA prepared from the sample and a primer pair for amplifying the DNA; and
a step of detecting a mecA gene in the sample by detecting a mecA gene in an amplification product obtained by the PCR step or by analyzing the amplification product,
wherein the primer pair used in the PCR step is at least one primer pair selected from the group consisting of (a) ~~to (c)~~ below.
(a) A primer pair comprising a combination of SEQ ID NO:3 and SEQ ID NO:7, a combination of SEQ ID NO:2 and SEQ ID NO:9, a combination of SEQ ID NO:1 and SEQ ID NO:8, a combination of SEQ ID NO:1 and SEQ ID NO:9, a combination of SEQ ID NO:4 and SEQ ID NO:11, a combination of SEQ ID NO:5 and SEQ ID NO:12, a combination of SEQ ID NO:6 and SEQ ID NO:10 or a combination of SEQ ID NO:6 and SEQ ID NO:12~~,~~.

~~(b) In (a) above, a primer pair in which one or two bases are added, deleted or substituted to the extent that a part of the base sequence of one or both primers does not impair the function as a primer,~~

~~(c) A primer pair comprising a complementary sequence corresponding to the base sequence of (a) or (b) above.~~

[Claim 7]
The detection method according to claim 6, wherein the primer pair is a primer pair consisting of a combination of SEQ ID NO: 6 and SEQ ID NO: 10~~, or a primer pair in which one or two bases are added, deleted, or substituted to the extent that a part of the base sequence of one or both primers of the combination does not impair the function as a primer~~.