

-continued

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<210> SEQ ID NO 24
<211> LENGTH: 79
<212> TYPE: PRT
<213> ORGANISM: Streptococcus pyogenes

<400> SEQUENCE: 24

Ser Val Asp Gln Leu Leu Ser His Asp Leu Ile Tyr Asn Val Ser Gly
1          5          10          15
Pro Asn Tyr Asp Lys Leu Lys Thr Glu Leu Lys Asn Gln Glu Met Ala
20          25          30
Thr Leu Phe Lys Asp Lys Asn Val Asp Ile Tyr Gly Val Glu Tyr Tyr
35          40          45
His Leu Cys Tyr Leu Cys Glu Asn Ala Glu Arg Ser Ala Cys Ile Tyr
50          55          60
Gly Gly Val Thr Asn His Glu Gly Asn His Leu Glu Ile Pro Lys
65          70          75

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<210> SEQ ID NO 25
<211> LENGTH: 73
<212> TYPE: PRT
<213> ORGANISM: Staphylococcus aureus

<400> SEQUENCE: 25

Val Leu Asp Asn Ser Leu Gly Ser Met Arg Ile Lys Asn Thr Asp Gly
1          5          10          15
Ser Ile Ser Leu Ile Ile Phe Pro Ser Pro Tyr Tyr Ser Pro Ala Phe
20          25          30
Thr Lys Gly Glu Lys Val Asp Leu Asn Thr Lys Arg Thr Lys Lys Ser
35          40          45
Gln His Thr Ser Glu Gly Thr Tyr Ile His Phe Gln Ile Ser Gly Val
50          55          60

Thr Asn Thr Glu Lys Leu Pro Thr Pro
65          70

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What is claimed is:

1. An isolated and purified superantigen toxin Staphylococcal enterotoxin B (SEB) in which amino acid Tyr at position 115 is substituted with Ala, amino acid Tyr at position 89 is substituted with Ala, amino acid Glu at position 67 is substituted with Gln, or amino acid Tyr at position 94 is substituted with Ala, such that binding of the altered toxin to either the MHC class II or T cell antigen receptor is altered.
2. An isolated and purified Staphylococcal enterotoxin B (SEB) superantigen toxin comprising the amino acid sequence of SEQ ID NO:6.
3. An isolated and purified Staphylococcal enterotoxin B (SEB) superantigen toxin comprising the amino acid sequence of SEQ ID NO:8.
4. An isolated and purified Staphylococcal enterotoxin B (SEB) superantigen toxin comprising the amino acid sequence of SEQ ID NO:10.

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