CLAIMS

1. A culture medium comprising a C-terminal arginine-containing di- or tri-peptide selected from:

a) the tripeptides EVR, DPR, TVR, VTR, EIR, ELR, INR, LNR, QVR, AVR, GIR, GLR, IVR, LVR, ITR, LTR, TLR, TIR, DTR, ESR, DVR, ILR, LLR, AIR, ALR, ADR, AGR, DQR, ENR, DMR, EMR, GTR, FPR, LMR, IPR, and LPR; and

b) the dipeptides DR, VR, ER, NR, and QR,

wherein said peptide exhibits a peptone biological activity.

2. The culture medium of claim 1, wherein said peptide is obtained by fractionation of a peptone or is chemically synthesized.

3. The culture medium of claim 2 wherein said peptone is a PP3 (component-3 of protease peptidone).

4. The culture medium of claim 1 wherein said peptide is selected from the peptides EVR, DPR, TVR, VTR, EIR, ELR, INR, LNR, QVR, AVR, GIR, GLR, IVR, LVR, ITR, LTR, DTR, ESR, DVR, ILR, LLR, AIR, ALR, ADR, AGR, DQR, ENR, DMR, EMR, GTR, FPR, LMR, IPR, and LPR.

5. The culture medium of claim 1 wherein said peptone biological activity is selected from the group consisting of promotion of cell growth, promotion of cell density; promotion of viable cell count; and increase of production yield in said recombinant host cell culture.

CLAIMS

1. A culture medium comprising a C-terminal arginine-containing di- or tripeptide selected from:

a) the tripeptides EVR, DPR, TVR, VTR, EIR, ELR, INR, LNR, QVR, AVR, GIR, GLR, IVR, LVR, ITR, LTR, TLR, TIR, DTR, ESR, DVR, ILR, LLR, AIR, ALR, ADR, AGR, DQR, ENT, DMR, EMR, GTR, FPR, LMR, IPR, and LPR; and

b) the dipeptides DR, VR, ER, NR, and QR,

in the absence of a peptone fraction having a molecular mass 500 Da or more,

wherein at least some of said peptides exhibit peptone biological activity.

2. The culture medium of claim 1, wherein said peptide is obtained by fractionation of a peptone or is chemically synthesized.

3. The culture medium of claim 2, wherein said peptone is a PP3 (component-3 of protease peptidone).

4. The culture medium of claim 1, wherein said peptide is selected from the peptides EVR, DPR, TVR, VTR, EIR, ELR, INR, LNR, QVR, AVR, GIR, GLR, IVR, LVR, ITR, LTR, TLR, TIR, DTR, ESR, DVR, ILR, LLR, AIR, ALR, ADR, AGR, DQR, ENT, DMR, EMR, GTR, FPR, LMR, IPR, and LPR.

5. The culture medium of claim 1, wherein said peptone biological activity is selected from the group consisting of promotion of cell growth, promotion of cell density, promotion of viable cell count, and increase of production yield in a recombinant host cell culture comprising said culture medium.

6. The culture medium of any one of claims 1 to 5, further comprising a recombinant host cell.

7. The culture medium of claim 6, wherein said recombinant host cell is an eukaryotic host cell.

8. The culture medium of claim 6, wherein said recombinant host cell is a prokaryotic host cell.

9. The culture medium of claim 6, wherein said recombinant host cell produces an antibody or an antibody fragment.