

CLAIMS

What is claimed is:

1. A method for generating cell hydrolysate by in vitro cell culture includes the steps of:
 - (i) lysing a cell by using sonication to release proteins in the cell;
 - (ii) digesting the proteins by using protease to produce short peptides having a molecular size smaller than 500 daltons (Da);
 - (iii) terminating the digestion step by either heating protease to a predetermined temperature for a predetermined period of time or diluting the protease to a predetermined concentration; and
 - (iv) sterile filtering the mix obtained from the digestion termination step through a membrane filter.
2. The method of claim 1, wherein the membrane filter is a 0.2 μm PVDF membrane filter.
3. The method of claim 1, wherein the predetermined temperature and predetermined period of time in the digestion termination step are 95 degree Celsius and 15 minutes respectively.
4. The method of claim 1, wherein the predetermined concentration is 100-fold and the protease is diluted by PBS.
5. A topical formulation comprising cell hydrolysate generated by the method of claim 1.