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(71) Applicant: **AVANT MEATS COMPANY LIMITED**
[CN/CN]; 11 Science Park West Avenue, Unit 620, 6/F,
Biotech Centre 2, Building 11 W, Hong Kong (CN).

(72) Inventors: **CHIN, Po San Mario**; 11 Science Park West
Avenue, Unit 620, 6/F, Biotech Centre 2, Building 11 W,
Hong Kong (CN). **CHAN, Kai Yi Carrie**; 11 Science Park
West Avenue, Unit 620, 6/F, Biotech Centre 2, Building 11
W, Hong Kong (CN). **POON, Chun Hei**; 11 Science Park
West Avenue, Unit 620, 6/F, Biotech Centre 2, Building 11
W, Hong Kong (CN).

(74) Agent: **YUAN, Arthur**; Loeb & Loeb LLP, 21st Floor,
CCB Tower, No. 3 Connaught Road Central, Hong Kong
(CN).

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(54) Title: METHODS FOR CULTIVATING CELLS, PREPARATION OF HYDROLYSATE FROM CELLS AND APPLI-
CATIONS THEREOF

(57) Abstract: A method for generating cell hydrolysate by in vitro cell culture includes the steps of lysing a cell by using sonication to release proteins in the cell; digesting the proteins by using protease to produce short peptides having a molecular size smaller than 500 daltons (Da); 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 sterile filtering the mix from the digestion termination step through a membrane filter. The cell hydrolysate generated may be used in various products including but not limited to skincare, wound care, cosmetic, food products, supplements, drugs and other medicinal applications.

WO 2021/111219 A1