عنوان مقاله:

Study of antioxidant activity of sheep visceral protein hydrolysate: Optimization using response surface methodology

محل انتشار:

مجله أريا أترواسكلروز, دوره 10, شماره 4 (سال: 1393)

تعداد صفحات اصل مقاله: 6

نوىسندگان:

Nasim Meshginfar - Department of Food Science, School of Agriculture, Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran

Alireza Sadeghi-Mahoonak - Associate Professor, Department of Food Science, School of Agriculture, Gorgan University of Agricultural Sciences and
Natural Resources, Gorgan, Iran

Aman Mohammad Ziaiifar - Assistant Professor, Department of Food Science, School of Agriculture, Gorgan University of Agricultural Sciences and
Natural Resources, Gorgan, Iran

Mohammad Ghorbani - Associate Professor, Department of Food Science, School of Agriculture, Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran

Mahdi Kashaninejad - Associate Professor, Department of Food Science, School of Agriculture, Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran

## خلاصه مقاله:

BACKGROUND: The main objective of this experiment was optimal use of none edible protein source to increase nutritional value of production with high biological function, including antioxidant activity. METHODS: Sheep visceral (stomach and intestine) was used as substrate. Response surface methodology (RSM) was used to optimize hydrolysis conditions for preparing protein hydrolysate from the sheep visceral, using alcalase Y.\* I enzyme. The investigated factors were temperature (\*\*T-ΔY C), time (\*\*-\lambda\* min), and enzyme/substrate ratio (\*\*\*-\lambda\* Anson-unit [AU]/kg protein) to achieve maximum antioxidant activity. Experiments were designed according to the central composite design. RESULTS: Each of the studied variables had a significant effect on responses (P < ·.·Δ). Optimal conditions to achieve antioxidant activity were, temperature (\*\*\text{A.YY C}), time (\lambda \Delta \D

كلمات كليدى:

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1504901

