

**CRUDE β -1, 3-GLUCAN BINDING PROTEIN PROFILING
FROM ROCK OYSTER (*Chama pacifica*) AND
ITS HEMAGGLUTINATION PROPERTIES**

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Crude B-1, 3-glucan binding protein profiling from rock oyster (*Chama pacifica*) and its hemagglutination properties / Muhamad Hazwan Mat Tar.



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Lihat sebelah

**Abstract CRUDE β -1, 3-GLUCAN BINDING PROTEIN PROFILING
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Crude β -1, 3-glucan binding protein (PGBP) was obtained from *Chama pacifica* collected from Pantai Pandak, Kuala Terengganu, Malaysia. Crude β -1, 3-glucan binding protein was isolated from plasma of *Chama pacifica* by using ammonium precipitation. Crude PGBP profile was determined using SDS-PAGE with estimated molecular weight 224.6 kDa. From agglutination assay results crude PGBP was able to agglutinate the human blood group A, B, and O, and as well as goat and chicken blood. PGBP acts similarly to poly saccharides in

Thesis Submitted in Fulfillment of the Requirement for the
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In fulfillment of the requirement for the degree of Master of Science

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Crude β -1, 3-glucan binding protein (β GBP) was obtained from *Chama pacifica* collected at Pantai Pandak, Kuala Terengganu, Malaysia. Crude β -1, 3-glucan binding protein was isolated from plasma of *Chama pacifica* by using laminarin precipitation. Crude β GBP profile was determined using SDS-Page with estimated molecular weight 224.6 kDa. From agglutination assay results crude β GBP were able to agglutinate the human blood (A, B, and O) and as well as goat and chicken blood. β GBP acts similarly to polysaccharide binding agglutinin thus may participate in the defense mechanisms.

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It is the greatest experience to have an opportunity to complete a thesis entitled "Profil Bahan Mentah Beta Glucan Pengikat Protein Daripada Tiram Batu (*Chama pacifica*) Dan Sifat-Sifat Aglutinasi".

PROFIL BAHAN MENTAH β -1, 3-GLUCAN PENGIKAT PROTEIN DARIPADA TIRAM BATU (*Chama pacifica*) DAN SIFAT-SIFAT AGLUTINASI

Honoursuation Properties. First, I would like to thank Allah S.W.T for giving me chance opportunity and good health in finishing the studies.

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Profil Bahan Mentah Beta Glucan Pengikat Protein *diperoleh dari Chama pacifica* yang

diambil dari Pantai Pandak, Chendering, Kuala Terengganu, Terengganu. Profil Bahan

Mentah Beta Glucan Pengikat Protein diasingkan dari *Chama Pacifica* melalui

pemendakan laminarin. Profil Bahan Mentah Beta Glucan Pengikat Protein diasingkan

dari *Chama Pacifica* ditentukan melalui SDS-Page dengan anggaran berat sebanyak

224.6 kDa. Daripada keputusan agglutinasi bahan mentah BGBP mampu agglutinasi

darah manusia (A, B, dan O) termasuk darah kambing, ayam, dan ikan. BGBP bertindak

sama seperti polisakarida pengikat oleh itu ia terlibat dengan mekanisma pertahanan