

Purification and Characterization of Transferrin from the Larval Hemolymph of *Galleria mellonella*

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Transferrin, an iron-binding protein, has been purified from the last larval hemolymph of *Galleria mellonella* by KBr density gradient ultracentrifugation, gel filtration (Superose 6), reversed phase chromatography (Resource RPC), and affinity chromatography (Hitrap Chelating Column) using fast protein liquid chromatography (FPLC). The detection of iron was determined by Ferene S staining. The purified hemolymph transferrin was shown to have molecular mass of 45 kDa. Other characteristics such as amino acid composition, N-terminal sequence, and isoelectric point were investigated. Also, antibody against transferrin was made and used to localize transferrin in fat body, ovary, and testis to trace possible role of transferrin in those organs.