

## Lipophorin From The Tsetse Fly, *Glossina Morsitans Morsitans*

Ochanda, JO; Osir, EO; Nguu, EK; Olembo, NK

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### **Abstract:**

Lipophorin was isolated from the haemolymph of adult tsetse fly, *Glossina morsitans morsitans*, by ultracentrifugation in a potassium bromide density gradient. 2. The tsetse fly lipophorin (Mr congruent to 600,000) has a density of congruent to 1.11 g/ml and consists of two apoproteins, apolipophorin-I (apoLp-I, Mr congruent to 250,000) and apolipophorin-II (apoLp-II, Mr congruent to 80,000), both of which are glycosylated as shown by staining with periodate-Schiff reagent. The protein complex is composed of 49% protein and 51% lipids. 3. The finding of lipophorin in tsetse fly haemolymph suggests that, although these flies primarily utilize proline for their energy needs, there is an active transport mechanism for the supply of lipid requirements.