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A comparative study of the plasma proteins of some Transvaal freshwater fish

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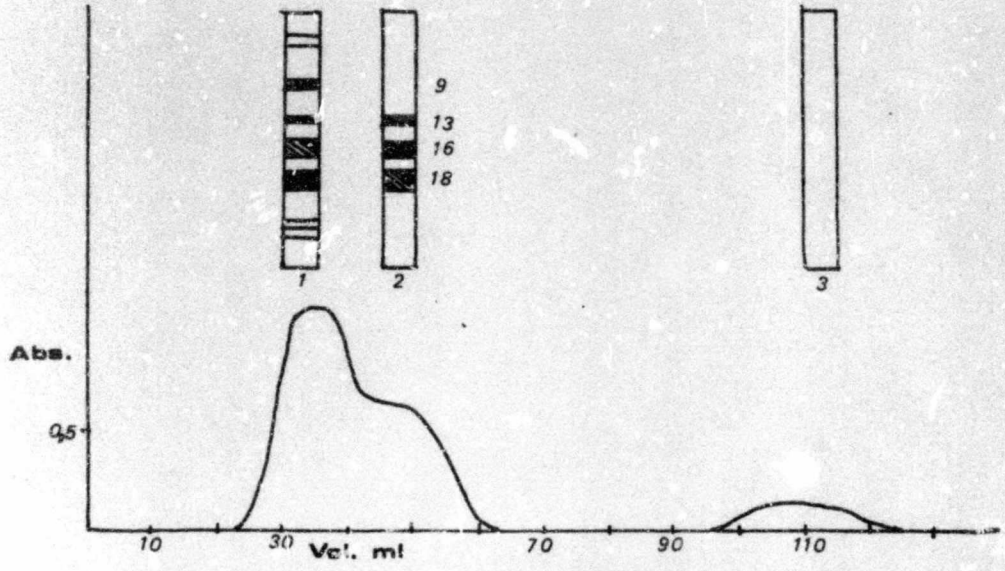


Fig. 18. Elution pattern of L. capensis protein on Sephadex G-100. Tris-HCl buffer, pH 7,5.

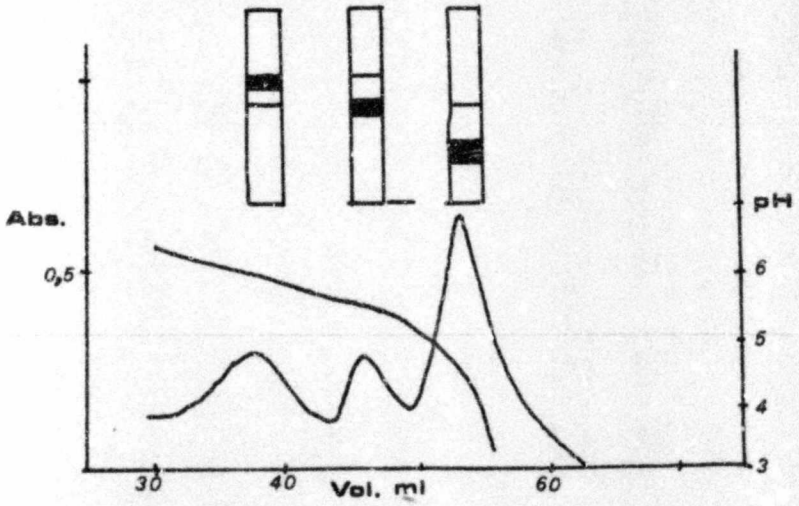


Fig. 19. Isoelectric focusing of sample 2 in fig. 18.



Fig. 20. Elution pattern of fractions 13 and 16 obtained by preparative gel electrophoresis with SDS.

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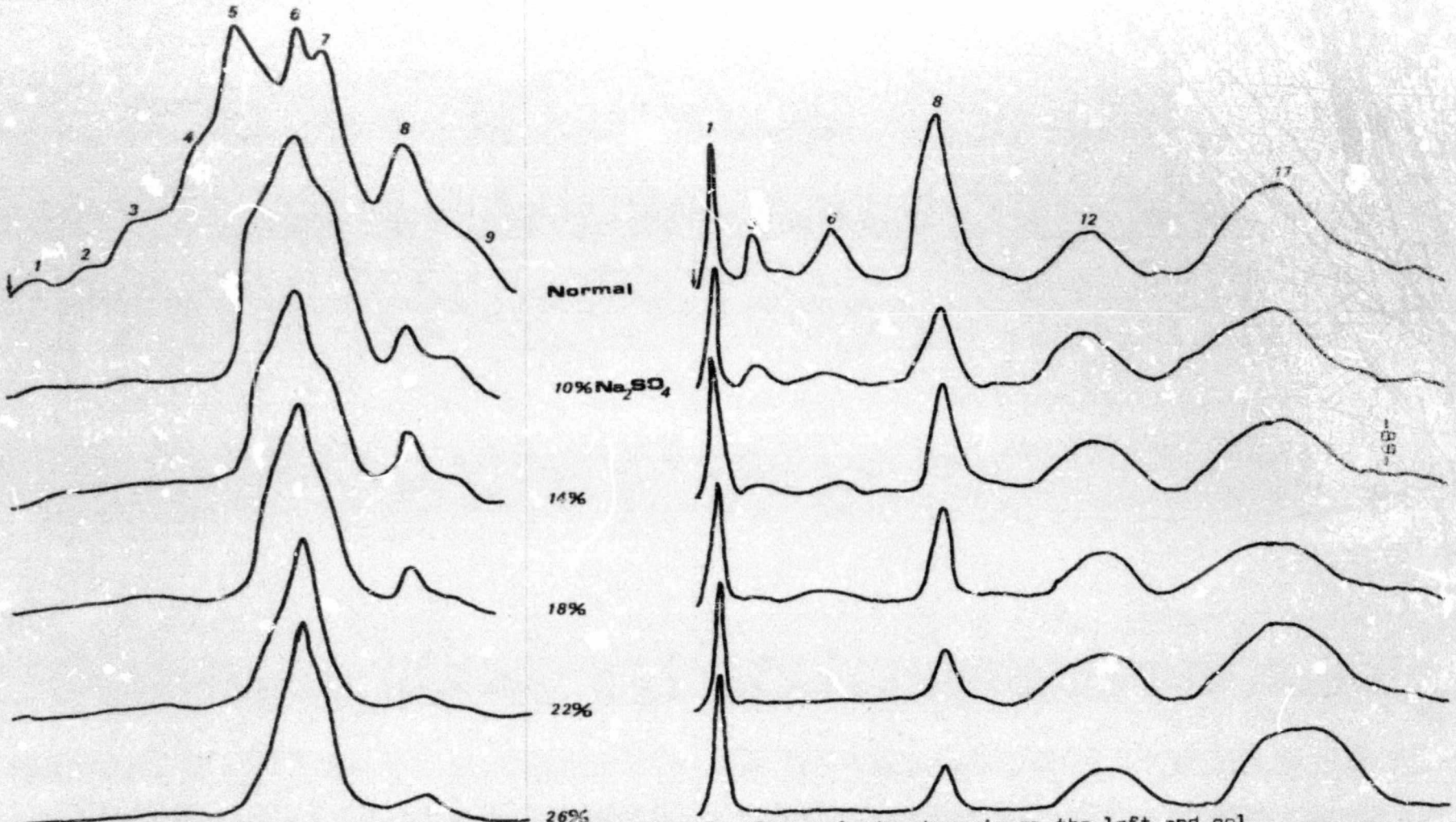


Fig. 21. Precipitation of B. holubi proteins with Na_2SO_4. Paper electrophoresis on the left and gel electrophoresis on the right.

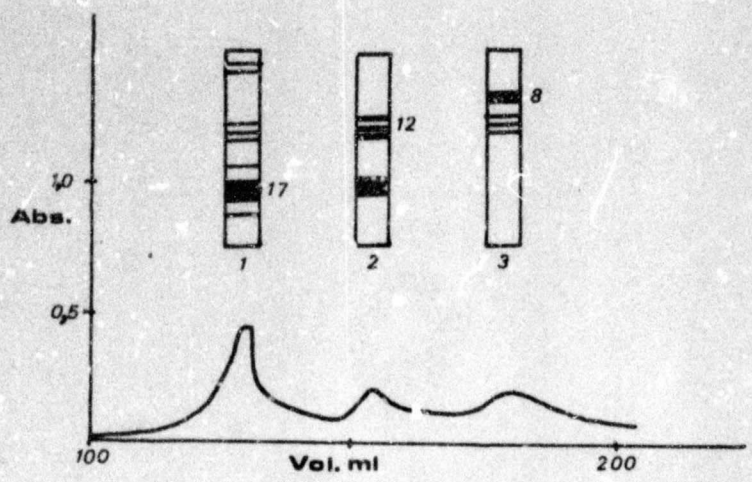


Fig. 22. Elution pattern of B. holubi protein on Sephadex G-100. Tris-HCl buffer, pH 8,0

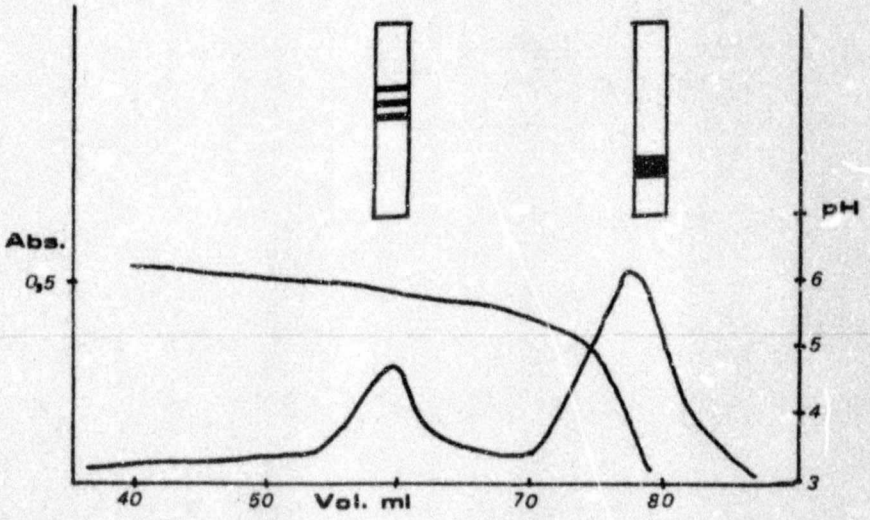


Fig. 23. Isoelectric focusing of sample 2 in fig. 22.

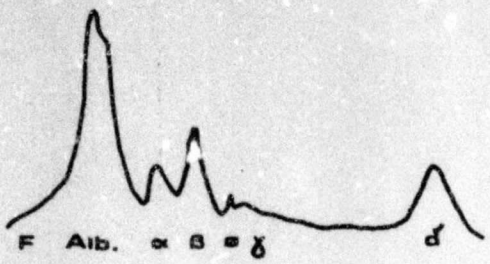
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TABLE 12.

Summary table.

	L. umbratus	L. capensis	B. holubi
26% Na_2SO_4 precipitation Effect on gel pattern	Fractions 13, 18, 20 and 21 not ppt.	Fractions 13, 16, 18, 20, 21 and 22 not ppt.	Fractions 8, 12, and 17 not ppt.
Fractions studied	13 and 18	13, 16 and 18	12(3 bands) and 17
Distance moved in gels	21,0 and 36,0 mm	20,0, 28,0 and 37,5 mm	15,5 and 25,5 mm
Approximate average molecular weight	69,100 and above 120,000	68,900 and above 120,000	55,500 and 89,100
Isoelectric points	5,75 and about 4,2	5,78, 5,41 and about 4,3	5,81 and about 3,8
Absorption spectrum	Typical protein	Typical protein	Typical protein
Effect of SDS	---	Mobility changes: 23,5 and 32,5(fractions 13 and 16). Approximate average molecular weight: 34,200.	No effect

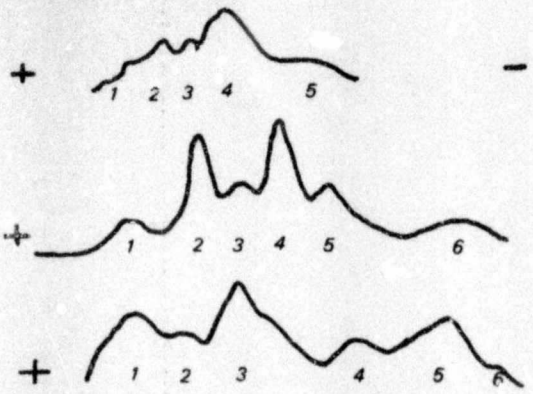
92/.....



Deutsch & Goodloe (1945).

Modified Tiselius.

Carp.



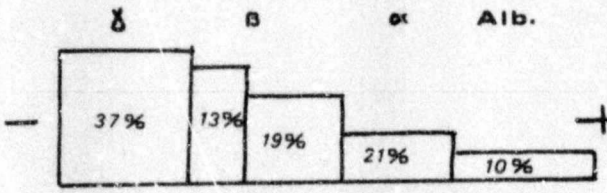
Bouck & Ball (1965).

Paper electrophoresis.

Bluegill

Largemouth bass.

Yellow bullhead.



Bucker (1961).

Paper electrophoresis.

Catfish.

Fig. 24. Plasma and serum protein patterns for fish reported by various authors.

Author Hattingh Johann
Name of thesis A comparative study of the plasma proteins of some Transvaal freshwater fish. 1973

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