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APPENDIX

Detection

Spray reagent : 2 gm resorcin dissolved in 100 ml methanol, mixed with 2% sulphuric acid (1:1)

Treatment : heat at 110 C until colour spot is seen

Solvents and Chemicals used

95% ethanol

5% aqueous lead acetate solution

chloroform

sodium sulphate anhydrous

anaesthetic ether

acetone

ethyl acetate

Key to Figures

PI-1 = 3-(2',3'-diacetoxy-2'-methyl butyryl)-cuauhtemone

PI-2 = Isolated compound (unidentified)

Solvent systems

a) anaesthetic ether

b) Chloroform : Acetone 9:1

c) Chloroform : Ethyl acetate 1:4

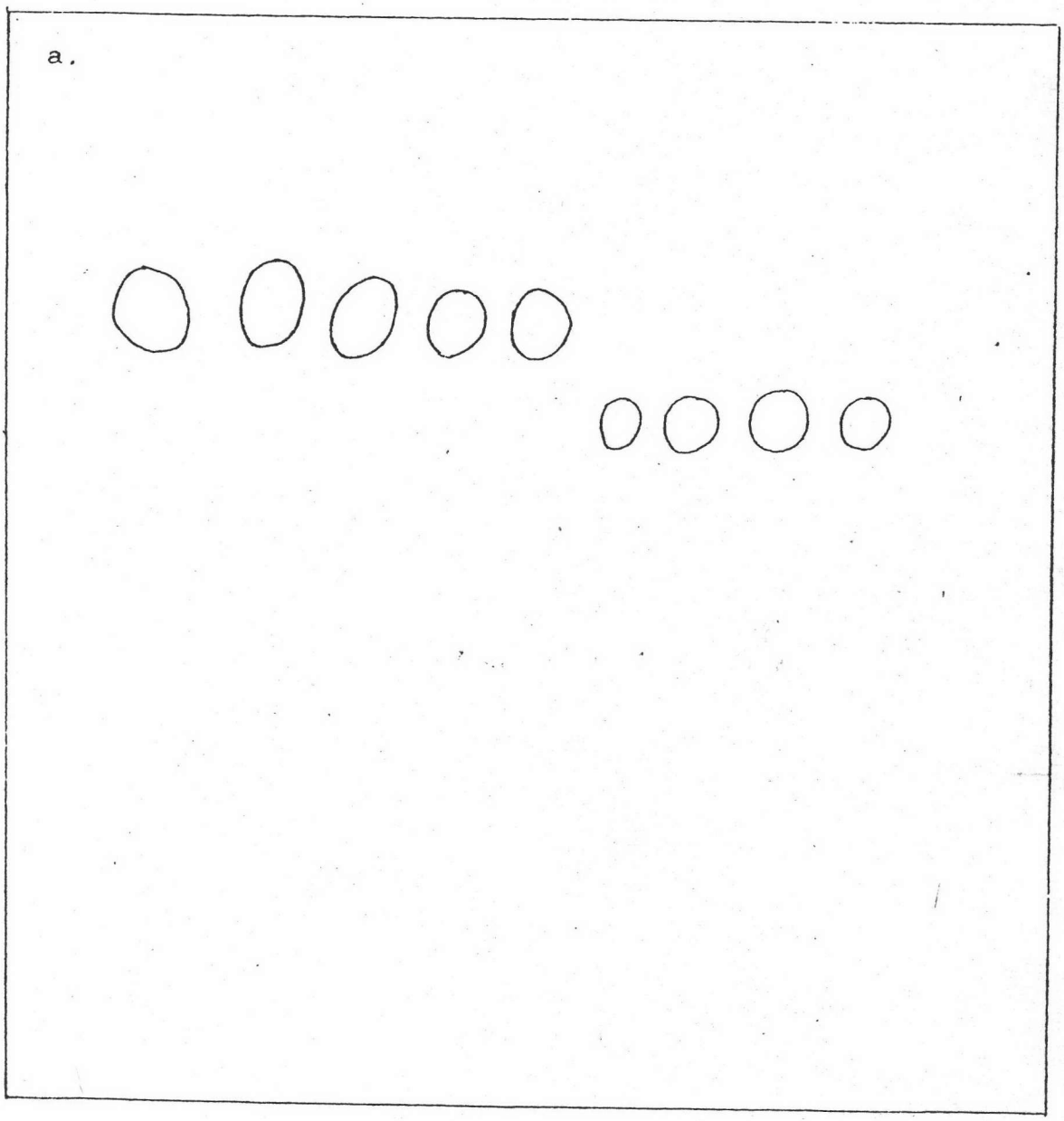

Fig. VI Thin layer chromatogram of isolated compounds from the leaves of *Pluchea indica* Less.

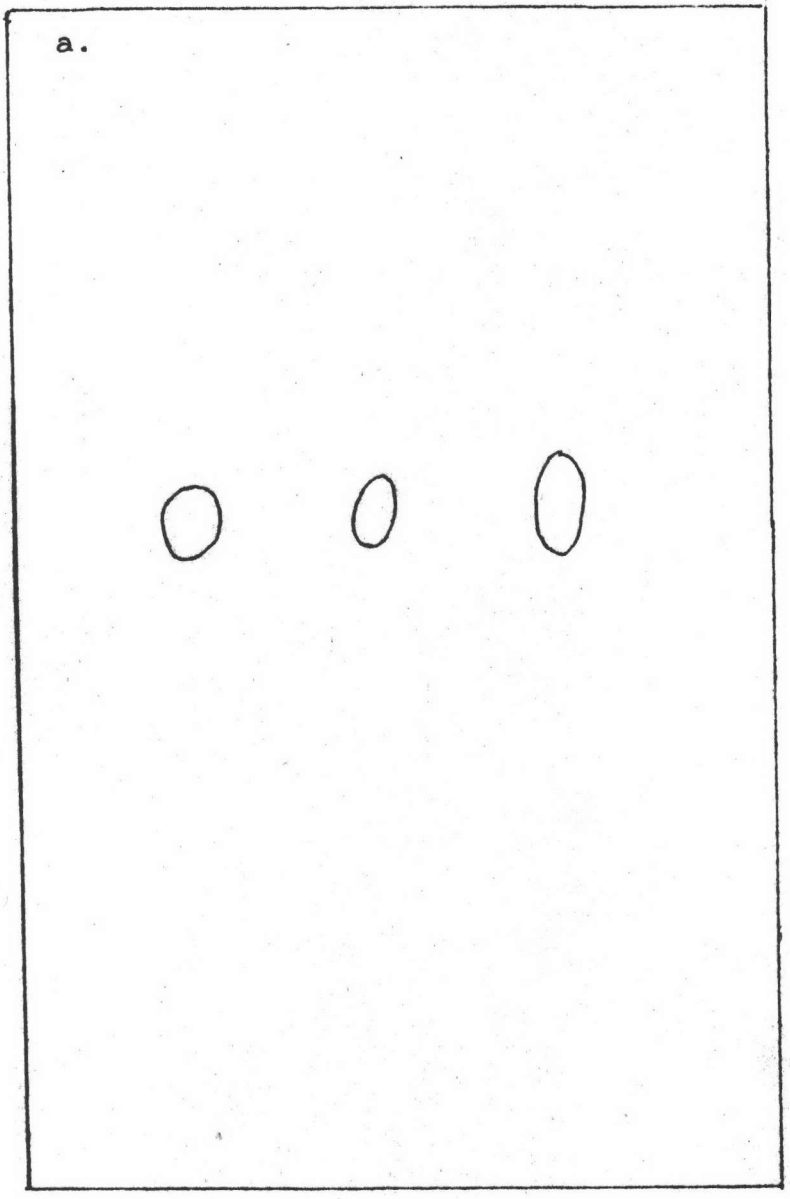

Fig. VII Thin layer chromatogram of PI-1 from the leaves of *Pluchea indica* Less.

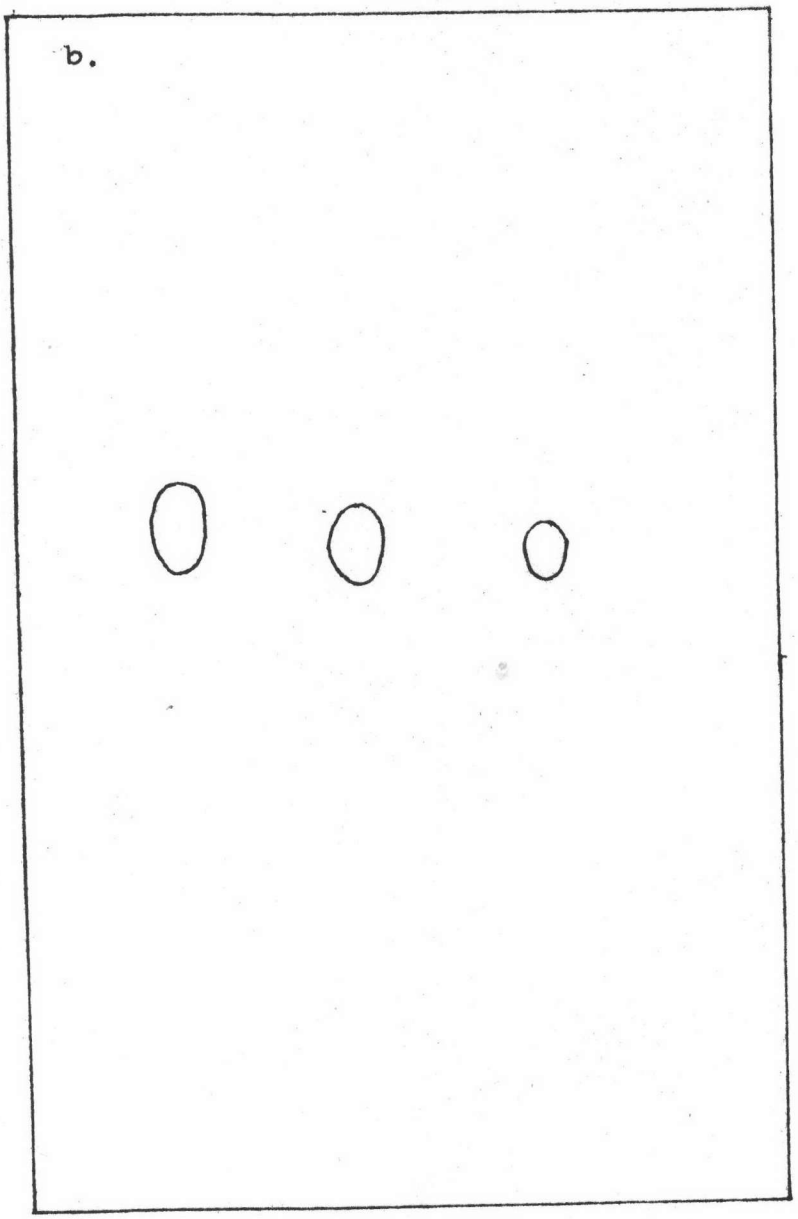

Fig. VIII Thin layer chromatogram of PI-1 from the leaves of *Pluchea indica* Less.

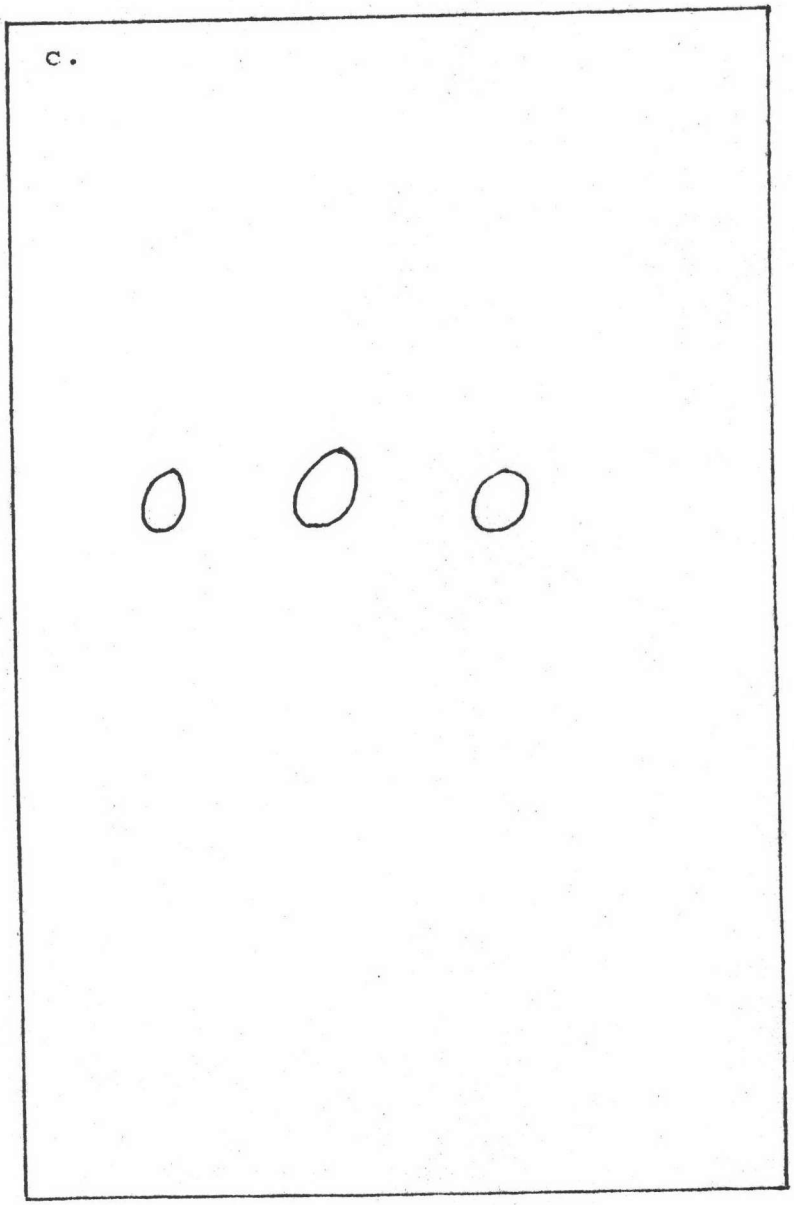

Fig. IX Thin layer chromatogram of PI-1 from the leaves of *Pluchea indica* Less.

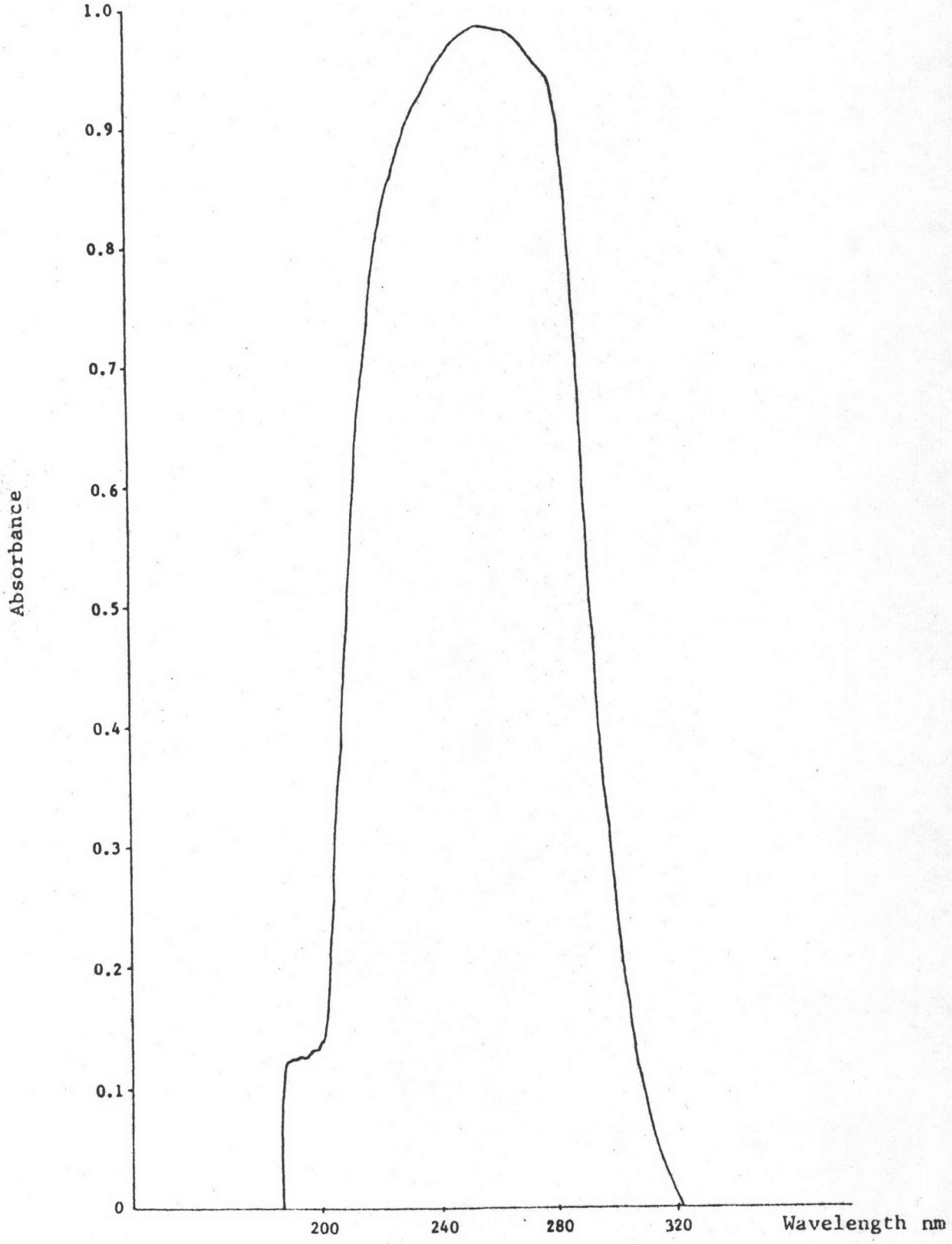

Fig. X Ultraviolet absorption spectrum of PI-1 in EtOH

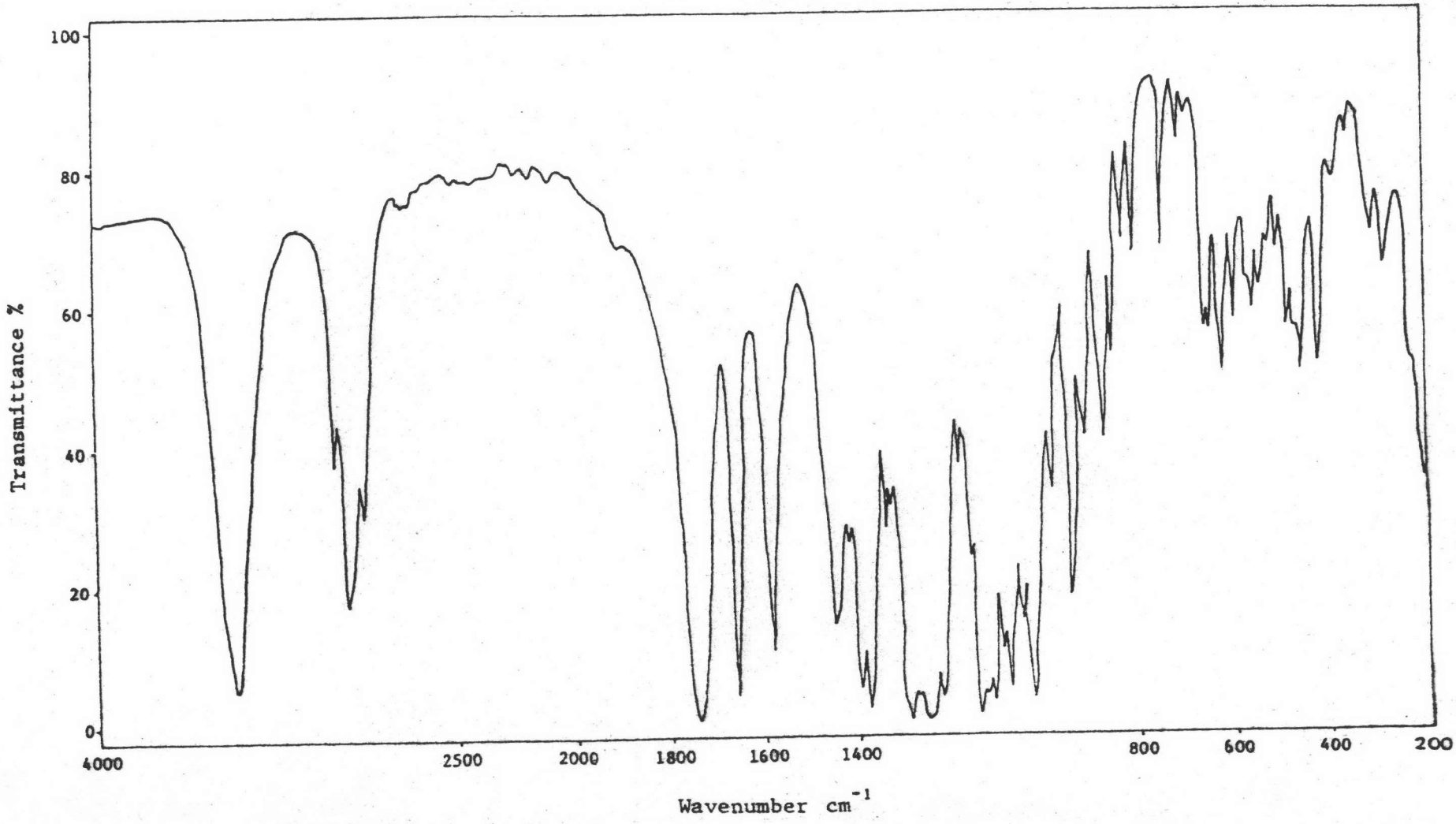

Fig. XI Infrared absorption spectrum of PI-1 in KBr disc

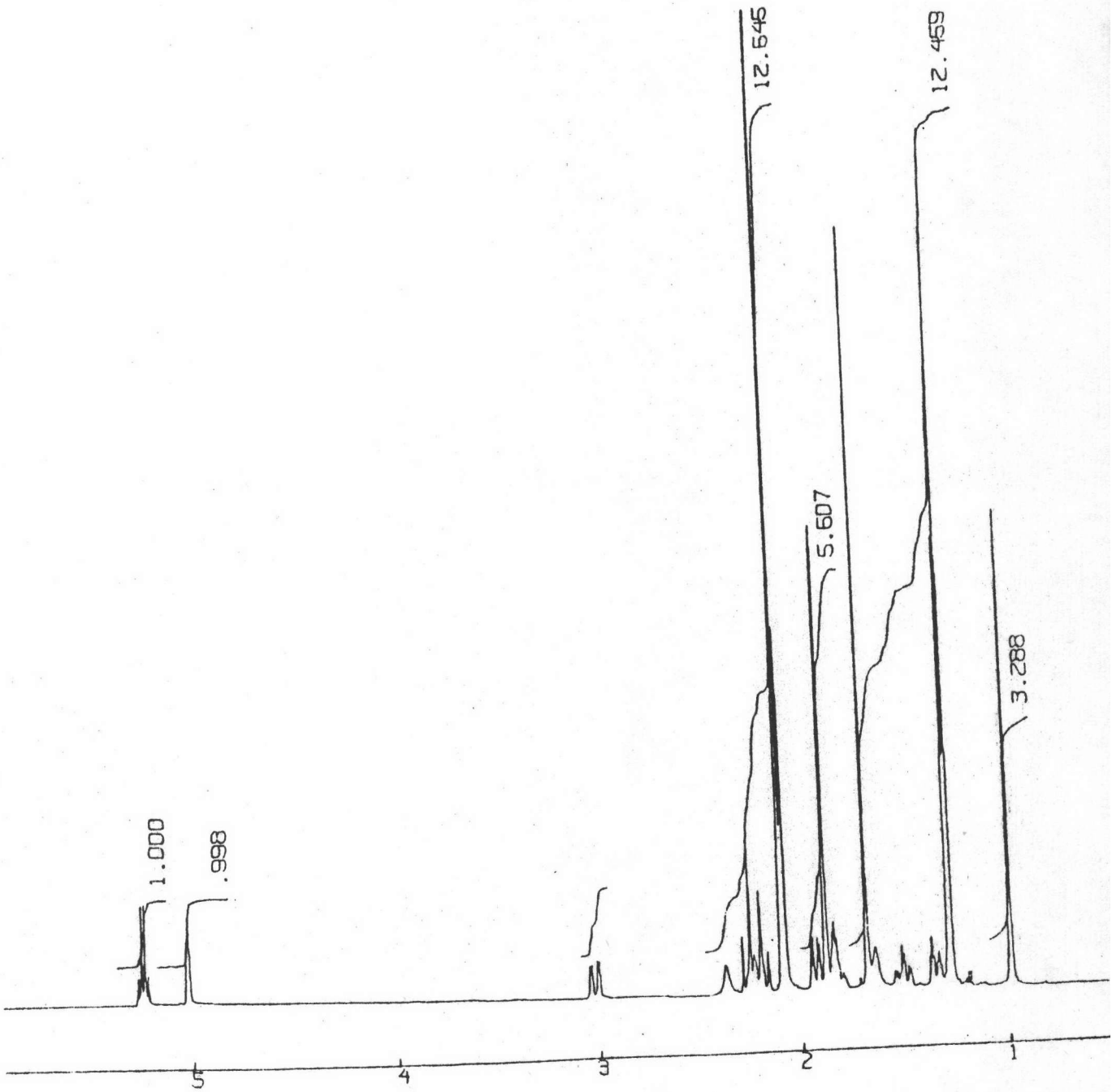

Fig. XII 400 MHz nuclear magnetic resonance spectrum of PI-1 in $CDCl_3$

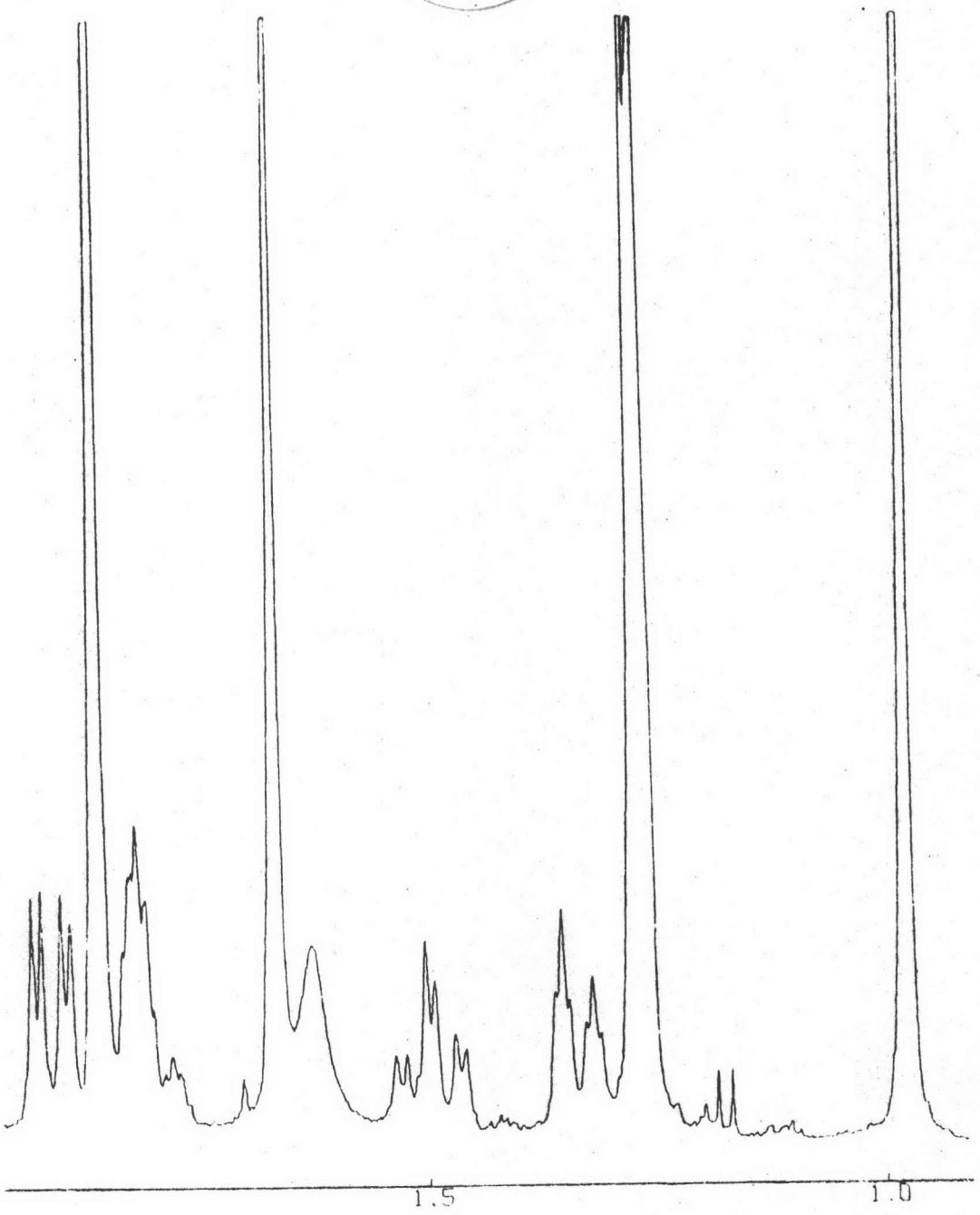

Fig. XIII Expansion of 400 MHz nuclear magnetic resonance spectrum of PI-1 in $CDCl_3$ at 1-2 ppm

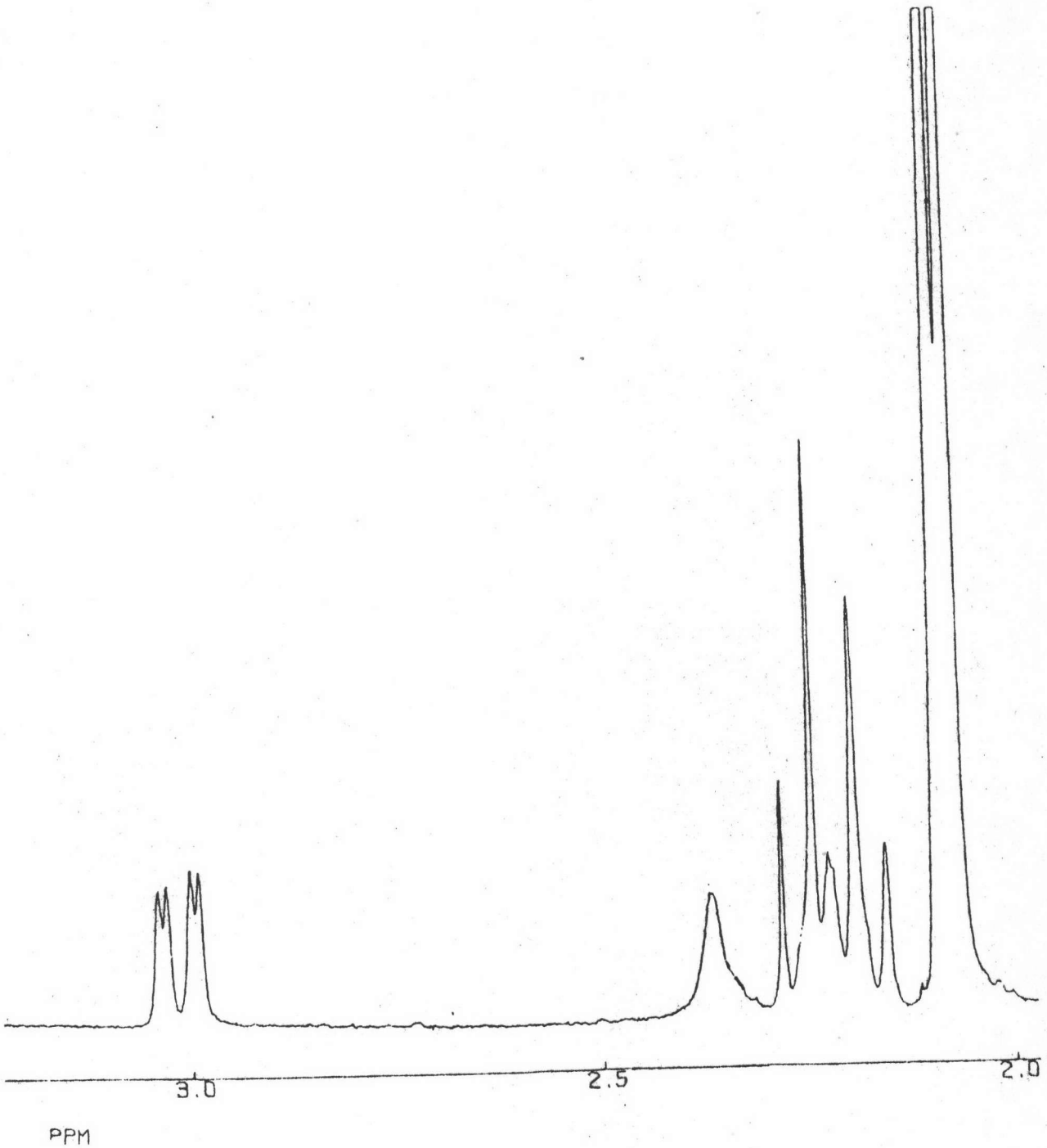

Fig. XIV Expansion of 400 MHz nuclear magnetic resonance spectrum of PI-1 in $CDCl_3$ at 2-3 ppm

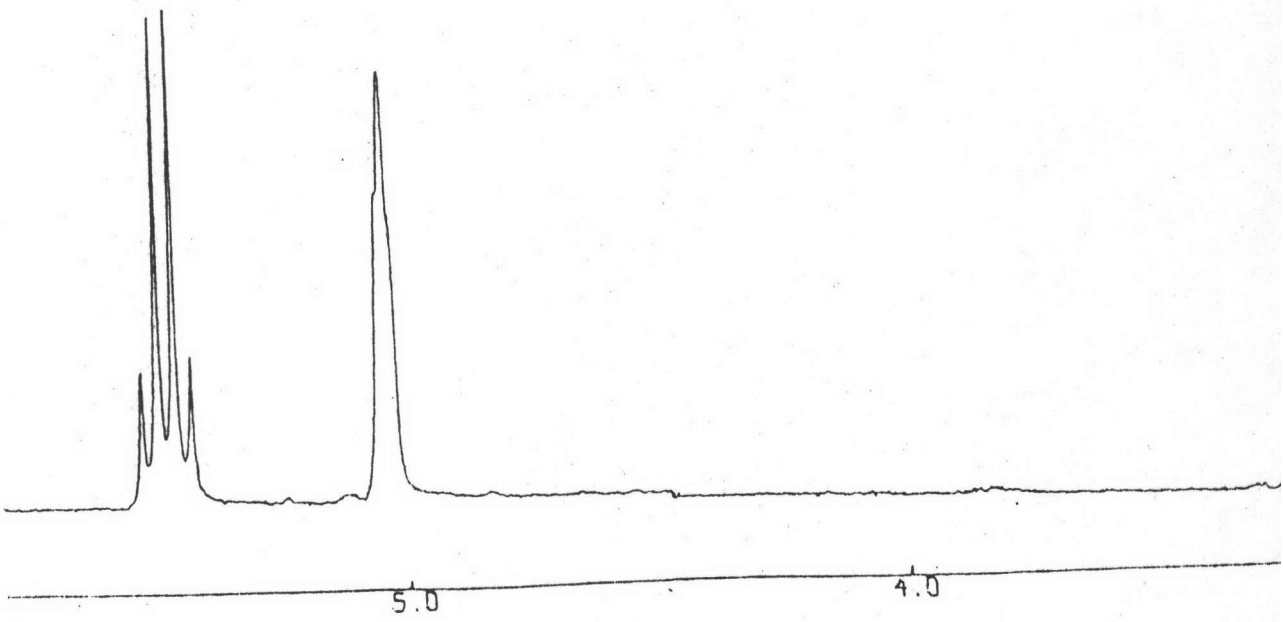

Fig. XV Expansion of 400 MHz nuclear magnetic resonance spectrum of PI-1 in $CDCl_3$ at 4-6 ppm

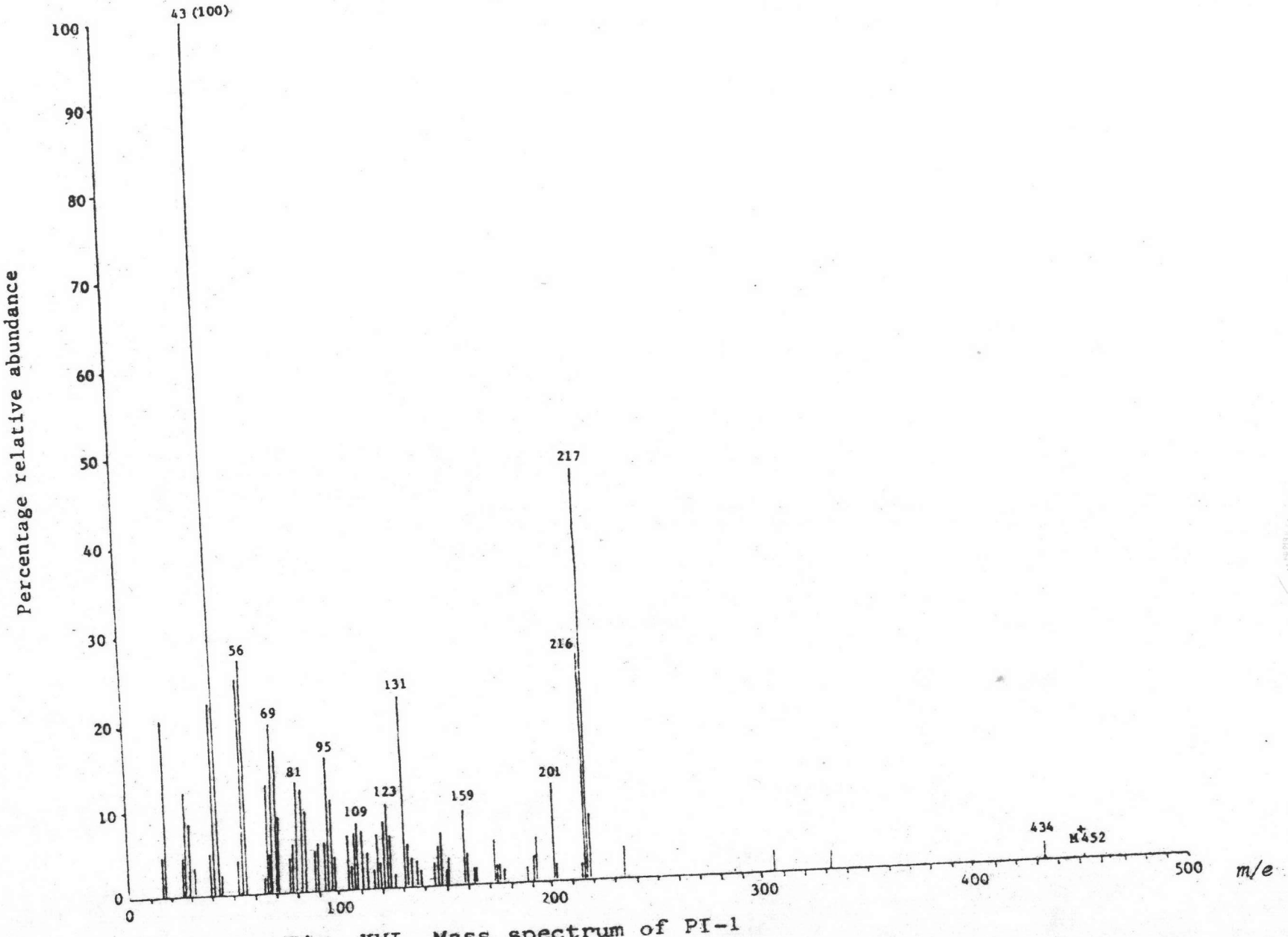

Fig. XVI Mass spectrum of PI-1

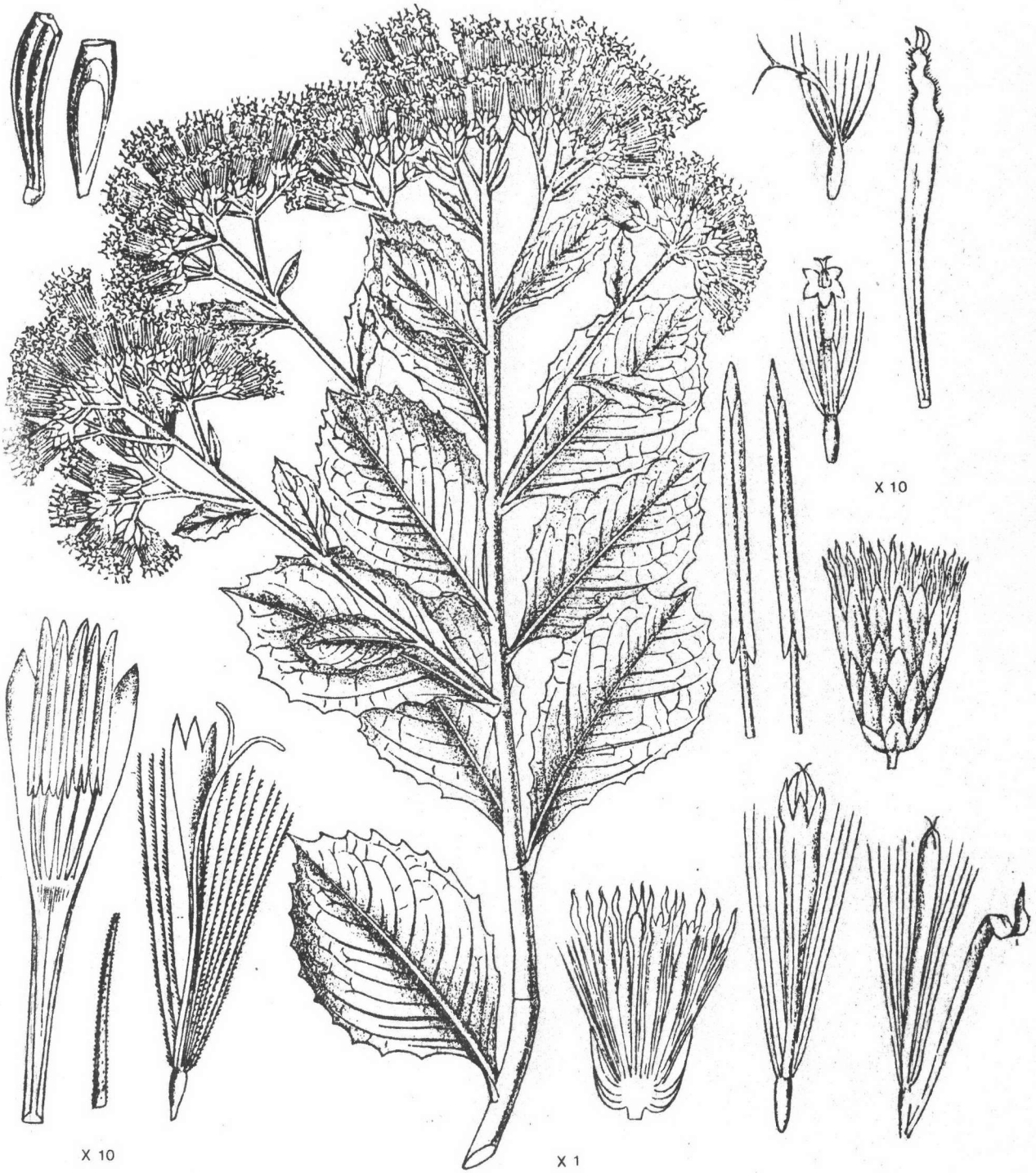

Fig. XVII ขี้ *Pluchea indica* Less. Compositae

(After Kirtikar and Basu)

VITA

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