

STUDIES ON THE SELECTIVE ANALYSES FOR Cr (iii) AND Cr (vi).

ESTIMATION OF Hg IN FISH USING FLAMELESS

ATOMIC ABSORPTION SPECTROMETRY

A DISSERTATION

SUBMITTED IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE
DEGREE OF THE MASTER OF SCIENCE OF THE UNIVERSITY OF COLOMBO,

SRI LANKA

BY

U. KALAPATHY

Department of Chemistry,
University of Colombo,
Sri Lanka.

Dec. 1981.



424792

ABSTRACT

Use of mixed complexing agents and ionic salts for selective estimation of Cr (iii) have been investigated. Extraction studies using dephenyl carbazide in the estimation of Cr (vi) form the other aspect of determination of the two oxidation states of chromium. These form Part I of this dissertation.

Flameless atomic absorption spectrometry in estimation of Hg in fish, a home made cold vapour generation of Hg for this estimation is described. Investigations also report optimum working conditions for the Hg analysis. Part II of the dissertation describes these studies.