

**UNIVERSITY OF SRI JAYEWARDENAPURA**  
**RESEARCH GRANTS**  
**FINAL REPORT**

Grant Number: **ASP/ 06/ RE/ 06/08**

Title of Project: **NUTRITIONAL AND CHEMICAL COMPOSITION OF**  
**TUNA SPECIES RECORDED FROM THE WATERS AROUND**  
**SRI LANKA**

Institute where research was carried out:

- Dept. of Zoology, Univ. of Sri Jayewardenapura
- Dept. of Food Science and Technology, Univ. of Sri Jayewardenapura
- Dept. of Chemistry, Univ. of Sri Jayewardenapura
- Dept. of Forestry, Univ. of Sri Jayewardenapura

Chief Scientific Investigator: **Dr. M.V.E.Attiygalle**

Research Assistant: **K.A.A.U.Karunarathna**

Amount of Funds: **Rs. 300,000**

# CONTENTS

## 1.0. Introduction

1.1. Species Composition	1 -2
1.2. Present status of the Tuna Fisheries in Sri Lanka	2- 3
1.3. Nutritional Value of fish	3-10
1.4. Hazards	10-13
1.5. Anatomical positions of fish	13

## 2.0. Materials and Methods

2.1. Sample Collection	14
2.2. Determination of the Proximate Composition	14-18
2.3. Determination of Fatty acid profile	19-20
2.4. Determination of Mineral elements	21-23
2.5. Determination of Histamine	23-24

## 3.0. Results and Discussion

3.1. Species composition	25-26
3.2. Proximate composition of Fish	26-28
3.3. Fatty acid profile	28-30
3.4. Macro elements	30-31
3.5. Trace elements	31-33
3.6. Toxic metals	33
3.6. Histamine	33-34

4.0. Conclusions	35-36
------------------	-------

## References