CHAPTER 8

APPENDICES

APPENDIX A

List of Thesis related Publications

I. **Dev Chaudhuri, S**, Shah, A and Chakraborty, U. Comparative analysis of antioxidant activities and phytochemical properties of some culinary herbs.***NBU Journal of Plant Sciences*** Vol. 10, Issue 1, March 2016 p. 55-65. (ISSN No. 0974-6927)

II. **Dev Chaudhuri, S** and Chakraborty, U. Phytochemical constituents and radical scavenging **a**ctivities of stem bark extractsof *Dregea volubilis* (Linn. f.) Benth ex. Hook.f. ***International Journal of Pharmaceutical sciences and research***. Vol. 8, Issue 11, November, 2017. Accepted for publication. (ISSN No. 0975-8232/2320-5148)

APPENDIX B

List of Abbreviations

µg- Micro gram

µg mL- Micro gram per mililiter

µL- Micro liter

A_{25}- Ampicillin

$AlCl_3.6H_2O$- Aluminium chloride hexa hydrate

AsAE- Ascorbic acid equivalents

BSA- Bovine serum albumin

BSAE- Bovine serum albumin equivqlents

BW- Body weight

C- Control

C_{25}- Chloramphenicol

Ca- Capsicum annuum

Cp- Ceiba pentandra

Cs- Coriandrum sativum

$CuSO_4.5H_2O$- Cupper sulphate penta hydrate

dH_2O- Distilled water

Dv- Dregea volubilis

$FeCl_3$- Feric chloride

Fv- Foeniculum vulgare

g- Gram

Go- Glinus oppositifolius

Gr- Group

h- Hour

H_2O- Water

H_2O_2- Hydrogen peroxide

H_2SO_4- Sulphuric acid

HCL- Hydrochloric acid

IC_{50}- Inhibitory concentration at which 50% inhibition occurs

Iv- Illicium verum

K- Kanamycin

K^+- Potassium ions

KOH- Potassium hydroxide

LB agar- Luria Bertani Agar

LB broth- Luria Bertani Broth

LHE- Lyophilized hot aqueous extract

LME- Lyophilized methanolic extract

M- Molar

Mf-Myristica fragrans

mg g^{-1}- Milligram per gram

MHA- Mueller Hinton Agar

min- Minute

Mk- Murraya koenigii

mM- Millimolar

Mp- Mentha piperita

NA- Nutrient Agar

Na^+- Sodium ions

Na_2CO_3- Sodium carbonate

Pp- Parmelia perlata

SDA- Sabouraud dextrose agar

TCA- Trichloro acetic acid

TFC- Total flavonoid content

Tfg- Trigonella foenum-graecum

TPC- Total polyphenol content

TSB- Tryptone Soya Broth

UV-Vis- Ultra violet-Visible wave length

Vit C- Vitamin C

Vit E- Vitamin E

APPENDIX C

List of Chemicals and Reagents

0.1 M sodium acetate buffer (*p*H 4.7)

0.1 M sodium phosphate buffer (*p*H 7.4)

0.2 M sodium acetate buffer (*p*H 4.7)

0.2 M sodium acetate buffer (*p*H 6.6)

1% Ferric chloride

1% Hydrochloric acid

10% Ammonium solution

2, 2'-Bipyridyl

2, 6-Dichloroindophenol (DCIP)

2,2-Diphenyl-1-picrylhydrazyl

20% Sodium hydroxide

Acetone

Agar

Alkaline copper tartarate reagent

Aluminium chloride

Aluminium trichloride hexahydrate

Aluminum trichloride

Anthrone's reagent

α-tocopherol

BSA

Catechin

Catechin

Chloroform

Cholesterol reagent

Crystal violet

D-Glucose

Dinitrophynyl hydrazine

Dinitrosalicylic acid

DNSA reagent

DPPH•

Ethanol

Ferric chloride

Ferrous chloride ($FeCl_2$)

Ferrozine

$FeSO_4$

Folin Ciocalteu's Phenol reagent

Folin-Ciocalteau reagent

Gallic acid

Gallic acid monohydrate

Glacial acetic acid

Glucose

H_2O_2

H_2SO_4

HCl

Hydrogen peroxide

L-Ascorbic acid

Mayer's Reagent:

Metformin

Methanol, HPLC grade

m-Phosphoric acid

Na_2EDTA

NaCl

NADH

Napthylethylene diamin dihydrochloride

NBT

n-Butanol

Nelson's arseno molybdate reagent

Nelson's Arseno molybdate reagent

n-Hexane

Phloroglucinol

PMS

Potassium acetate

Potassium ferricyanide

Quercetin

SDS- Sodium dodecyl sulphate

Sodium carbonate

Sodium salicylate

Streptozotocin

Trichloroacetic acid

Vanillin

Wagner's reagent:

APPENDIX D

List of Microbiological Media

Luria Bertani Agar:

Composition	g L^{-1}
Casein enzymic hydrolysate	10.00
Yeast extract	5.00
Sodium chloride	10.00
Agar	15.00
Final *p*H (at 25°C)	7.5±0.2

Luria Bertani Broth:

Composition	g L^{-1}
Casein enzymic hydrolysate	10.00
Yeast extract	5.00
Sodium chloride	10.00
Final *p*H (at 25°C)	7.5±0.2

Mueller Hinton Agar:

Composition	g L^{-1}
Meat, infusion solids from 300g	2.00
Casein acid hydrolysate	17.50
Starch	1.50
Agar	17.00
Final *p*H (at 25°C)	7.3±0.1

Nutrient Agar:

Composition	g L^{-1}
Peptic digest of animal tissue	5.00
Sodium chloride	5.00
Beef extract	1.50
Yeast extract	1.50
Agar	15.0
Final *p*H (at 25°C)	7.4±0.2

Nutrient Broth:

Composition	g L^{-1}
Peptone	10.00
Beef extract	10.00
Sodium chloride	5.00
*p*H after sterilization	7.3±0.1

Skim Milk Agar:

Composition	g L^{-1}
Skim milk powder	28.00
Casein enzymic hydrolysate	5.00
Yeast extract	2.50
Dextrose	1.00
Agar	15.00
Final *p*H (at 25°C)	7.0±0.2

Tryptone Soya Broth:

Composition	g L^{-1}
Pancreatic digest of casein	17.00
Papaic digest of soyabean meal	3.00
Sodium chloride	5.00
Dextrose	2.50
Dibasic potassium phosphate	2.50
Final *p*H (at 25°C)	7.3±0.2