

## APPENDICES

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### **Appendix A: List of thesis related publication**

1. Choudhury J and Chakraborty U. (2017) Antioxidant activity and phytochemical screening of two important wetland plants *Enydra fluctuans* DC. and *Hygrophila auriculata* (Schumach.) Heine. *World Journal of Pharmacy and Pharmaceutical Sciences*, **6**: 1424-1436.
2. Choudhury J, Majumdar S, Roy S and Chakraborty U. (2017) Antioxidant activity and phytochemical screening of two edible wetland pteridophytes *Diplazium esculentum* (Retz.) Sw. and *Marsilea minuta* L. a comparative study. *World Journal of Pharmaceutical and Medical Research*, **3(9)**: 195-203.

## **Appendix B: List of abbreviations**

ABTS	2,2'-azino-bis(3-ethylbenzothiazoline-6-sulphonic acid)
AlCl <sub>3</sub>	Aluminium chloride
ALT	Alanine aminotransferase
AS	<i>Amaranthus spinosus</i>
AV	<i>Amaranthus viridis</i>
BA	<i>Barringtonia acutangula</i>
BHT	Butylated hydroxy toluene
BSAE	Bovine serum albumin equivalent
CH <sub>3</sub> COOH	Acetic acid
CR	<i>Cryptocoryne retrospiralis</i>
DE	<i>Diplazium esculentum</i>
DMRT	Duncan's multiple range test
DMSO	Dimethyl sulfoxide
DPPH	2,2-Diphenyl-1-picrylhydrazyl
EDTA	Ethylenediaminetetraacetic acid
EF	<i>Enhydra fluctuans</i>
EP	<i>Eclipta prostrata</i>
FeCl <sub>3</sub>	Ferric chloride
FRAP	Ferric Reducing Antioxidant Power
FT-IR	Fourier Transform Infrared Spectroscopy
GAE	Gallic acid equivalents
GC-MS	Gas Chromatography–Mass Spectrometry
GLDH	Glutamate ehydrogenase
GO	<i>Glinus oppositifolius</i>
H <sub>2</sub> SO <sub>4</sub>	Sulfuric acid
HA	<i>Hygrophila auriculata</i>
HCL	Hydrochloric acid
HDL	High-density lipoprotein
HPLC	High Performance Liquid Chromatograph
HS	<i>Hydrocotyle sibthorpioides</i>
IA	<i>Ipomoea aquatica</i>
IBM	International Business Machines Corporation
IC <sub>50</sub>	50% Inhibition concentration
LDL	Low-density lipoprotein
LGA	Lamarckian genetic algorithm
ME	Methanolic extract
MM	<i>Marsilea minuta</i>
NA	Nutrient Agar
Na <sub>2</sub> CO <sub>3</sub>	Sodium carbonate

Na <sub>2</sub> SO <sub>4</sub>	Sodium sulfate
NaNO <sub>2</sub>	Sodium nitrite
NaOH	Sodium hydroxide
NCCS	National Centre for Cell Science
NIST	National Institute of Standards and Technology
NO	Nitric oxide
PM	<i>Pilea microphylla</i>
PMS-NADH	Phenazine methosulfate- Nicotinamide adenine dinucleotide
PN	<i>Phyla nodiflora</i>
PO	<i>Portulaca oleracea</i>
RCSB	Research Collaboratory for Structural Bioinformatics
SD	Standard Deviation
SGOT	Serum Glutamic-Oxaloacetic Transaminase
SGPT	Serum Glutamic-Pyruvic Transaminase
SPSS	Statistical Package for the Social Sciences
TPTZ	2,4,6-Tris(2-pyridyl)-s-triazine

### **Appendix C: List of chemicals**

1.  $\alpha$ -Amylase enzyme
2.  $\alpha$ -Glucosidase
3. 2,2' Azinobis-(3-ethylbenzthiazoline-6-sulfonic acid) ABTS
4. Acetic acid
5. Acetic anhydride
6. Acetone
7. Aluminum chloride
8. Ammonia
9. Butanol
10. Chloroform
11. Citrate buffer (pH 4.5)
12. Conc.H<sub>2</sub>SO<sub>4</sub>
13. Cupper acetate
14. 2-deoxyribose solution
15. Dichloromethane
16. Dichromatic acetic acid
17. 2,2'-di-*p*-nitrophenyl-5,5'-diphenyl-(3,3'-
18. dimethoxy-4,4'-diphenylene)di-tetrazolium chloride
19. DNS (3,5-dinitrosalicylic acid) reagent
20. DPPH (2,2-diphenyl-1-picrylhydrazyl)
21. Dragendroff's reagent
22. Ethylenediaminetetraacetic acid
23. Ethanol
24. Ethyl Acetate
25. Ethylenediamine tetraacetic acid
26. FeCl<sub>2</sub>
27. FeCl<sub>3</sub>
28. Fehling's solution I (A)
29. Fehling's solution II (B)
30. Ferric chloride
31. Ferrozine
32. FeSO<sub>4</sub>, 7H<sub>2</sub>O
33. Folin-Ciocalteu reagent
34. Formic Acid
35. Gallic acid
36. Glacial acetic acid
37. Glibenclamide
38. Glucose
39. Hexane
40. Hydrated ferrous sulphate
41. Hydrochloric acid
42. Hydrogen peroxide
43. Hydroxylamine hydrochloride
44. Methanol

45. Na<sub>2</sub>CO<sub>3</sub>
46. Na<sub>2</sub>SO<sub>4</sub>
47. NaOH
48. Naphthylethylenediamine dihydrochloride
49. n-Butanol
50. Nicotinamide-adenine dinucleotide phosphate (NADPH)
51. Ninhydrin reagent
52. Nitro-blue tetrazolium (NBT)
53. Petroleum ether
54. Phenazine methosulphate (PMS)
55. *p*-nitrophenol- $\alpha$ -D-glucopyranoside
56. Potassium dichromate
57. Potassium ferricyanide
58. Potassium hydroxide
59. Potassium persulfate
60. Pyridine
61. Sodium carbonate
62. Sodium hydroxide
63. Sodium nitroprusside
64. Starch
65. Streptozotocin
66. Trichloroacetic acid (TCA)