

APPENDIX A

List of chemicals and reagents used

Chemicals and reagents	Sources
Albumin, Bovine Serum	Sigma Chemical Co., U.S.A.
Acetonitrile (HPLC grade)	Fischer Chemicals, Great Britain
5-Aminolevulinic acid	Gib Co., U.S.A.
Ammonium acetate	Merck, Germany
Bicine	Sigma Chemical Co., U.S.A.
Boric acid	Merck, Germany
Calcium Nitrate	Sigma Chemical Co., U.S.A.
Cobalt Chloride	Sigma Chemical Co., U.S.A.
Collagenase	Sigma Chemical Co., U.S.A.
Dimethyl Sulfoxide	Merck, Germany
3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide (MTT) dye	Sigma Chemicals Co., U.S.A.
β -Disodium glycerophosphate	Sigma Chemical Co., U.S.A.
Dulbecco's Modified Eagle Medium	Sigma Chemical Co., U.S.A.
Ethylenedinitrilo tetraacetic Acid, disodium salt (EDTA)	J.T. Baker, U.S.A.
O,O'-Bis(2-aminoethyl)ethyleneglycol-N,N,N',N'- tetraacetic acid (EGTA)	Sigma Chemical Co., U.S.A.
Fetal Calf Serum	Gib Co., U.S.A.
Ferric chloride	Sigma Chemical Co., U.S.A.

10X hanks' balanced salt solution (complete)	Gib Co., U.S.A.
10X hanks' balanced salt solution (without magnesium and calcium)	Gib Co., U.S.A.
N-2-Hydroxyethylpiperazine-N'-2- ethanesulfonic acid (HEPES)	Sigma Chemical Co., U.S.A.
Hydrochloric acid	Merck, Germany
Ketamine	Parnell Laboratories, Australia
Magnesium chloride	Sigma Chemical Co., U.S.A.
Manganese chloride	Sigma Chemical Co., U.S.A.
Methanol (HPLC grade)	Fisher Chemicals, Great Britain
Microcystin-LR, -RR –YR standards	Kanto Chemicals, Japan
Potassium Nitrate	Sigma Chemical Co., U.S.A.
Sodium bicarbonate	Merck, Germany
Sodium hydroxide	Mallinckrodt Baker, Mexico
Sodium Molybdate	Sigma Chemical Co., U.S.A.
Sodium Nitrate	Sigma Chemical Co., U.S.A.
Sodium Selenite	Sigma Chemicals Co., U.S.A.
Sodium Sulphate	Merck, Germany
Trifluoroacetic acid	Sigma Chemical Co., U.S.A.
Xylazine	Bayer, Canada
Zinc chloride	Sigma Chemical Co., U.S.A.

APPENDIX B

List of reagent preparation

Preparation of Wash-Out Liver Perfusion Medium (pH 7.35)

- 10X Hanks' balanced salt solution (HBSS) (without magnesium and calcium)	100 mL
- Sodium bicarbonate	2.2 g
- HEPES	2.83 g
- EGTA	0.19 g
- Heparin	2,000 units

Adjust volume to 1,000 mL with de-ionized water

Preparation of Primary Hepatocytes Cell Wash Medium (pH 7.35)

- 10X Hanks' balanced salt solution (HBSS) (complete)	100 mL
- Sodium bicarbonate	2.2 g
- HEPES	2.83 g
- Bovine serum albumin (BSA)	1 g

Adjust volume to 1,000 mL with de-ionized water

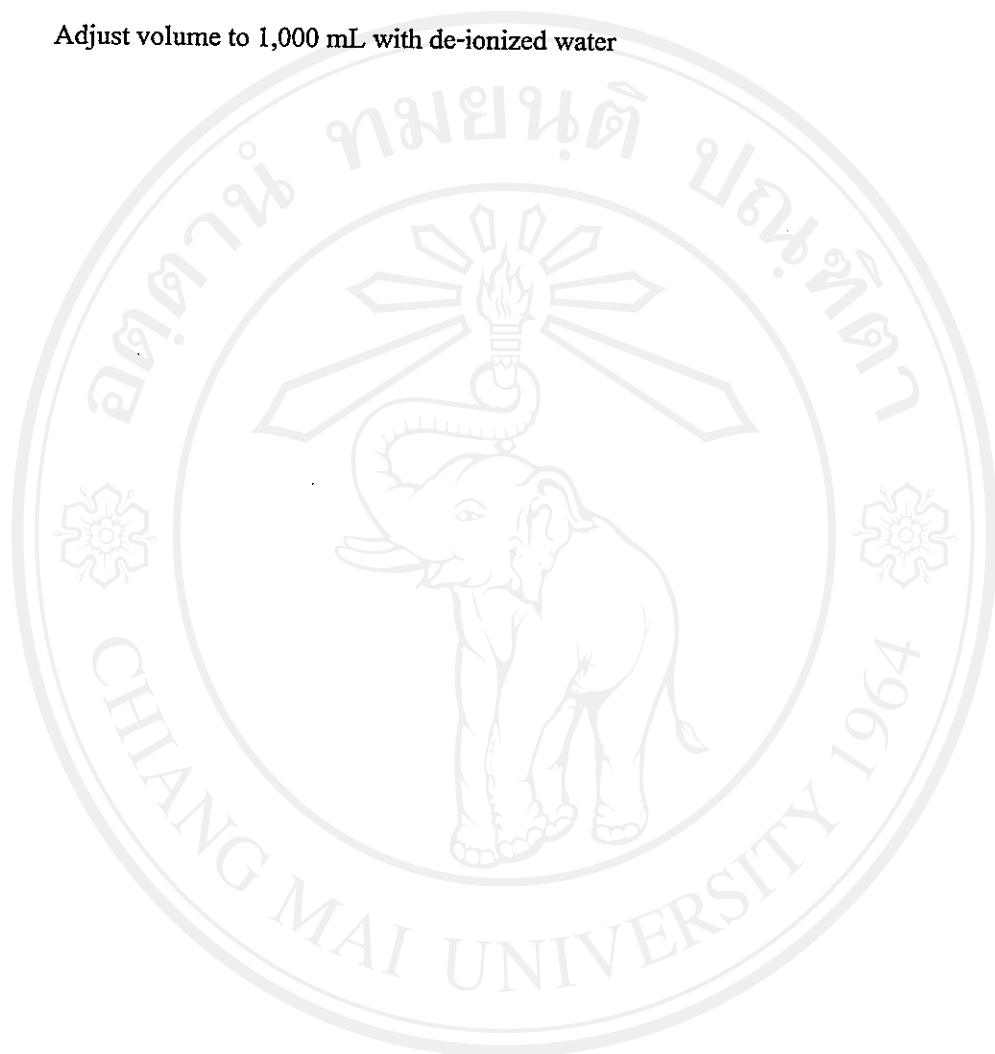
Preparation of Primary Hepatocytes Culture Medium (pH 7.35)

- DMEM powdered medium	1 L pkg
- HEPES	2.83 g
- Sodium bicarbonate	2.2 g
- 5-Aminolevulinic acid	17.0 mg
- Insulin/ transferrin/sodium selenite solution	5.0 mL

- Gentamicin solution (10 mg.mL^{-1})

5.0 mL

Adjust volume to 1,000 mL with de-ionized water



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Aroonvilairat S., Ruangyuttikarn W., Peerapornpisal Y., Pekkoh J. "Detection of microcystin-LR in cyanobacterial blooms in Huay Yuak water reservoir in Chiang Mai". Poster 10, The 3rd International Congress of the Asian Society of Toxicology: ASIATOX III, Bangkok/Chiang Mai, Thailand. February 1-6, 2004.

Pekkoh J., Peerapornpisal Y., Codd G.A., Ruangyuttikarn W., Aroonvilairat S. "Investigation of toxic cyanobacteria, cyanotoxin and water quality in some water resources in Thailand". Proceedings of 2003 International Symposium on Environmental Management: Policy, Research, and Education, Chiang Mai, Thailand. November 6-9, 2003. p.299.