APPENDIX

APPENDIX A Preparation of some reagents used in determination of hyaluronan concentrations

1. Coating buffer

NaHCO₃

4.2005

g

Dissolve chemical in 300 ml of distilled water. pH is adjusted to 9.6 and volume is added up to 500 ml.

2. Citric phosphate buffer

Citric acid (monohydrate)

5.120

g

NaHPO₄.12H₂O

18.265

g

All chemicals are dissolved in distilled water. pH is adjusted to 5 and volume is added up to 500 ml.

3. Phosphate buffer saline (PBS)

NaCl	8	Denglagia
KCl	0.20	g
Na ₂ HPO ₄ .12H ₂ O	2.9	Gniang Mai University
NaH ₂ PO ₄ .H ₂ O	0.23	t ^g s reserved

Dissolve all chemicals in distilled water and adjust pH to 7.4 with HCl. Then, add the volume up to 11 with distilled water.

4. Phosphate buffer saline containing 0.01% Tween-20 (PBS-T)

Pipette 500 μl of polyethylene sorbitan monolaurate (Tween-20) to a bottle of 1 1 PBS,



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APPENDIX B Evaluation of precision of the determination of hyaluronan level

The intra- and inter-assay precision were studied in the pooled human serum sample. Intra-assay was determined as 20 identical aliquots of pooled serum samples within the same plate. Inter-assay was determined in separate plates and performed with the same condition. The coefficient of variation was 14.66% and 15.33% for intra- and inter-assay, respectively. The results were shown below:

Assay	Hyaluronan Concentration	Coefficient of Variation
	(ng/ml±SD)	(%)
Intra-assay	2,756.54 <u>+</u> 404.21	14.66
Inter-assay	2,698.90 <u>+</u> 413.83	15.33

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