



เอกสารอ้างอิง

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ภาคผนวก

Hanks' Balanced Salt Solution (HBSS)

Stock A:	NaCl	160.0 g
	KCl	8.0 g
	MgSO ₄ · 7 H ₂ O	2.8 g
	MgCl ₂ · 6 H ₂ O	2.0 g
	CaCl ₂	2.8 g
	Deionized Water to	1000 ml

Stock B:	KH ₂ PO ₄	1.2 g
	Na ₂ HPO ₄	1.2 g
	Bacto Dextrose	20.0 g
	Chloroform	2.0 g
	Deionized Water to	1000 ml
	Phenol Red	0.4 %
		(0.4 g/100 ml H ₂ O)

Working Solution:	Stock A	1 part
	Stock B	1 part
	Deionized Water	18 parts

Veronal Buffer 0.075 M, pH 8.6

Diethylbarbituric Acid	2.76 g
Sodium diethylbarbiturate	15.45 g
NaN ₃	1.00 g
Distilled Water	1000 ml

Phosphate Buffer Saline (PBS)

A. Concentrated Stock Solution

$\text{Na}_2\text{HPO}_4 \cdot 12 \text{H}_2\text{O}$	31.03	g
$\text{NaH}_2\text{PO}_4 \cdot 2 \text{H}_2\text{O}$	2.0316	g
NaCl	85.0	g
Distilled Water	1000	ml

B. Working Solution PBS (0.01 M, pH 7.6)

Concentrated Stock Solution	100	ml
Distilled Water to	1000	ml

Tris Buffer pH 7.6

Tris	1.2	g
NaCl	5.8	g
EDTA Na	7.4	g
NaN_3	1.0	g
Polyethyleneglycol 6000	20.0	g
Dextran T 500	20.0	g
Distilled Water	1000	ml

วิธีย้อม Haematoxylin & Eosin (สำหรับชิ้นเนื้อที่ fix ด้วย 10% formalin)

- ล้างพาราฟินออกจาก section โดยแช่สไลด์ใน xylene 2½ นาที 2 ครั้ง แล้วแช่ใน isopropyl alcohol อีก 2½ นาที
- แช่ใน 95% alcohol 1 นาที 2 ครั้ง และแช่ในน้ำประปาอีก 1 นาที
- ย้อมด้วย haematoxylin 10 นาที และล้างด้วยน้ำประปาหลาย ๆ ครั้ง
- decolorize ด้วย 0.5% acid alcohol และล้างด้วยน้ำประปา

หลาย ๆ ครั้ง แช่ในสารละลาย Lithium carbonate 30 วินาที แล้วล้างด้วยน้ำ
ประปาอีกหลาย ๆ ครั้ง

5. counterstain ด้วย eosin 2 นาที
6. จุ่มใน 95% alcohol, 95% alcohol, isopropyl alcohol,
isopropyl alcohol ตามลำดับ
7. จุ่มใน xylene 6 ครั้ง
8. mount ด้วย permount



ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย

ประวัติผู้เขียน

น.ส. สุรีย์พร สิมป์ศุภฤกษ์ เกิดวันที่ 22 ตุลาคม พ.ศ. 2493 ที่อำเภอเมือง
จังหวัดภูเก็ต จบปริญญาวิทยาศาสตรบัณฑิต (เทคนิคการแพทย์) มหาวิทยาลัยมหิดล เมื่อ
ปี พ.ศ. 2516

ปัจจุบันทำงานในตำแหน่งนักวิทยาศาสตร์การแพทย์ 4 งานจุลชีววิทยา และ
ซีโรโลยี ฝ่ายพยาธิวิทยา รพ. เลิดสิน กรมการแพทย์ กระทรวงสาธารณสุข



ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย