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ศูนย์วิทยทรัพยากร  
จุฬาลงกรณ์มหาวิทยาลัย



APPENDICE

ศูนย์วิทยทรัพยากร  
จุฬาลงกรณ์มหาวิทยาลัย

## BUFFERS AND REAGENT

### 1. Lysis Buffer I

Sucrose	109.54	g
1.0 M Tris – HCl (pH 7.5)	10	ml
1.0 M MgCl <sub>2</sub>	5	ml
Triton X – 100 (pure)	10	ml
Distilled water to	1,000	ml

Sterilize the solution by autoclaving and store in a refrigerator (at 4°C).

### 2. Lysis Buffer II

5.0 M NaCl	15	ml
0.5 M EDTA (pH 8.0)	48	ml
Distilled water to	1,000	ml

Sterilize the solution by autoclaving and store at room temperature.

### 3. 10% SDS solution

Sodium dodecyl sulfate	10	g
Distilled water to	100	ml

Mix the solution and store at room temperature.

### 4. 20 mg/ml Proteinase K

Proteinase K	2	mg
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Distilled water to 1 ml

Mix the solution and store in a refrigerator (at  $-20^{\circ}\text{C}$ ).

5. 1.0 M Tris – HCl

Tris base 12.11 g

Dissolve in distilled water and adjusted pH to 7.5 with HCl

Distilled water to 100 ml

Sterilize the solution by autoclaving and store at room temperature.

6. 0.5 M EDTA (pH 8.0)

Disodium ethylenediamine tetraacetate. $2\text{H}_2\text{O}$  186.6 g

Dissolve in distilled water and adjusted pH to 8.0 with NaOH

Distilled water to 1,000 ml

Sterilize the solution by autoclaving and store at room temperature.

7. 1.0 M  $\text{MgCl}_2$  solution

Magnesium chloride. $6\text{H}_2\text{O}$  20.33 g

Distilled water to 100 ml

Dispense the solution into aliquots and sterilize by autoclaving.

8. 5 M NaCl solution

Sodium chloride 29.25 g

Distilled water to 100 ml

Dispense the solution into aliquot and sterilize by autoclaving.

9. 10X Tris borate buffer (10X TBE buffer)

Tris – base	100	g
Boric acid	55	g
0.5 M EDTA (pH 8.0)	40	ml

Adjust volume to 1,000 ml with distilled water. The solution was mixed and store at room temperature.

10. 6X loading dye

Bromphenol blue	0.25	g
Xylene cyanol	0.25	g
Glycerol	50	ml
1M Tris (pH 8.0)	1	ml

Distilled water until 100 ml

Mixed and stored at 4°C

11. 7.5 M Ammonium acetate ( $\text{CH}_3\text{COONH}_4$ )

Ammonium acetate	57.81	g
Distilled water	80	ml

Adjust volume to 100 ml with distilled water and sterilize by autoclaving.

## 12. 25:24:1 (v/v) Phenol-chloroform-isoamyl alcohol

Phenol	25	volume
Chloroform	24	volume
Isoamyl alcohol	1	volume

Mix the reagent and store in a sterile bottle kept in a refrigerator.

## 13. 2% Agarose gel (w/v)

Agarose	1.6	g
1X TBE	80	ml

Dissolve by heating in microwave oven and occasional mix until no granules of agarose are visible.

## 14. Ethidium bromide

Ethidium bromide	10	mg
Distilled water	1	ml

Mix the solution and store at 4°C

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## BIOGRAPHY

Mr.Chalurmpon Srichomthong was born in Lamphun, in September 5<sup>th</sup>,1978. In 2001, He received his bachelor degree in Genetics from Faculty of Science, Chulalongkorn University in Bangkok Thailand. Consequently, with his interests in human and molecular genetics, he had made one of his vigorous decision to study in curriculum of Medical Science in Faculty of Medicine for his master degree.

### Publications

1. Chatchatee P, Srichomthong C, Chewatavorn A, and Shotelersuk V. A novel termination codon mutation of the WAS gene in a Thai family with Wiskott-Aldrich syndrome.Int J Mol Med. 2003 Dec;12(6):939-41.
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