



**APPENDIX F**

สำนักหอสมุด

## Reagents for T7 phage biopanning

### 1. LB broth

Twenty five grams of LB broth powder (Difco Laboratory, Detroit, Michigan, USA) were dissolved in 1,000 ml of distilled water by heating and sterilized by autoclaving at 151 lb/inch<sup>2</sup>, at 121°C for 15 min. The medium was cooled to 50°C and kept at 4°C.

### 2. LB agar

Ten grams of tryptone (Himedia, India), 5 g of yeast extract, 5 g of NaCl and 10 g of agarose were dissolved in 100 ml of distilled water. The medium was sterilized by autoclaving at 151 lb/inch<sup>2</sup>, at 121°C for 15 min. The agar was poured onto petri dishes. The agar plates were kept at 4°C.

### 3. LB top agar

Ten g of Tryptone, 0.5 g of yeast extract, 0.5 g of NaCl and 0.6 g of agarose were dissolved in 100 ml of distilled water. The medium was sterilized by autoclaving. The medium was kept at 4°C.

### 4. Elution buffer (1% SDS solution)

The solution was prepared by dissolving ten g of sodium dodecyl/lauryl sulfate in one liter of distilled water.

### 5. Coating buffer (Carbonate-bicarbonate buffer, pH 9.6)

The buffer was prepared by dissolving 1.26 g of NaHCO<sub>3</sub> in 300 ml of distilled water, then the pH was adjusted to 9.6 with 0.5 M Na<sub>2</sub>CO<sub>3</sub> (0.53 g in 100 ml of distilled water).

**6. Phosphate buffered saline (0.01 M PBS, pH 7.4)**

The solution was prepared by dissolving 1.216 g of anhydrous  $\text{Na}_2\text{HPO}_4$ , 0.17 g of anhydrous  $\text{NaH}_2\text{PO}_4$  and 8.766 g of  $\text{NaCl}$  in one liter of distilled water. The pH of this solution was adjusted to 7.4 with 1 N  $\text{HCl}$ .

**7. Washing solution (PBS-T)**

Washing solution (PBS-T) was prepared by mixing Tween-20 in PBS, pH 7.4 to 0.05% concentration.

**8. Blocking solution**

The solution was prepared by dissolving one g of BSA in 100 ml of 0.01 M PBS.

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