APPENDIX I

Reagents for immunoglobulins(Ig) and ScFv purification

1. 10 × binding buffer (0.20 M phosphate buffer, pH 7.0)

The solution was prepared by dissolving 1.38 g of NaH_2PO_4 and 1.411 g of Na_2HPO_4 in 100 ml of distilled water.

2. 10 × elution buffer (1 M glycine, pH 3.0)

The solution was prepared by dissolving 7.5 g of glycine in distilled water. The pH was adjusted to 3.0 with HCl. The final volume was brought up to 100 ml with distilled water.

3. 1 × neutralizing buffer (1 M Tris pH 8.2)

To prepare the solution, 12.1 g of Tris base were dissolved in 80 ml of DW. The pH was adjusted to 8.2 with HCl. The final volume was brought up to 100 ml with DW. The solution was filtered through a sterile 0.45 μm filter.

4. 1 × binding buffer (20 mM phosphate buffer pH 7.0)

The buffer was prepared by diluting 50 ml of 0.20 M phosphate buffer, pH 7.0 in DW to final volume of 500 ml and then filtered through a sterile 0.45 μm filter.

5. 1 × elution buffer (0.1 M glycine, pH 3.0)

The buffer was prepared by diluting 10 ml of 1 M glycine, pH 3.0 in DW to final volume of 100 ml and then filtered through a sterile 0.45 μm filter.