



## Buffers

### For AC Diagnostics (ACD)'s ELISA Tests

| Lot # | Cat. # | Description                         | Coating Buffer (10x) | Sample Buffer (Powder) | Conjugate Buffer (10x) | PBST Buffer (Powder) | Tween-20         | PNP Buffer (5x) | PNP Tablet  |
|-------|--------|-------------------------------------|----------------------|------------------------|------------------------|----------------------|------------------|-----------------|-------------|
|       | M004-1 | DAS/TAS ELISA, Alk.Pho. 500 tests   | 6 ml                 | 11.6 g                 | 6 ml                   | 28.7 g               | 7.0 g            | 10 ml           | 10 Tablets  |
|       | M004-2 | DAS/TAS ELISA, Alk.Pho. 1000 tests  | 12 ml                | 23.2 g                 | 12 ml                  | 57.3 g               | 14.0 g           | 20 ml           | 20 Tablets  |
|       | M004-3 | DAS/TAS ELISA, Alk.Pho. 5000 tests  | 60 ml                | 115.7 g                | 60 ml                  | 286.5 g              | 70.0 g           | 100 ml          | 100 Tablets |
|       | M005-1 | Indirect ELISA, Alk.Pho. 500 tests  | -                    | 50 ml                  | 6 ml                   | 100 ml               | -                | 10 ml           | 10 Tablets  |
|       | M005-2 | Indirect ELISA, Alk.Pho. 1000 tests | -                    | 100 ml                 | 12 ml                  | 200 ml               | -                | 20 ml           | 20 Tablets  |
|       | M005-3 | Indirect ELISA, Alk.Pho. 5000 tests | -                    | 500 ml                 | 60 ml                  | 1000 ml              | -                | 100 ml          | 100 Tablets |
|       |        | Storage                             | Room Temperature     | Room Temperature       | Room Temperature       | Room Temperature     | Room Temperature | 4 °C            | -20 °C      |

#### Storage and Usage

Store all buffers at room temperature, except for PNP Substrate Buffer at 4 °C and the PNP tablets at -20 °C under dark.

Buffers are recommended for ELISA tests with ACD's Reagents, Kits and other ACD test formats only.

#### Preparing 1x Buffer from Concentrate

To prepare the 1x buffer, dilute the concentrated buffers at 1:10 (Coating and Conjugate buffers), and 1:5 (PNP buffer) with D.H<sub>2</sub>O . Pour all the content into D.H<sub>2</sub>O and stir the diluted buffers for 10-30 minutes for mixing well and dissolving completely. If only part of the concentrated buffer being used, stir or mix the buffer first before pipetting.

#### Preparing 1x Buffer from Powder

To prepare the 1x buffer, dissolve the powder buffer into D.H<sub>2</sub>O at the ratio on the table below. For sample buffer, mix the powder with small amount of D.H<sub>2</sub>O into a paste (no lumps) before adding more D.H<sub>2</sub>O. Stir for 10-30 minutes for dissolving completely, and make up to final volume.

|               | 1x Sample buffer |         |         | 1x PBST Buffer |         |           |
|---------------|------------------|---------|---------|----------------|---------|-----------|
| Buffer Powder | 11.6 g           | 23.2 g  | 115.7 g | 28.7 g         | 57.3g   | 286.5 g   |
| Tween-20      | 5.0 g            | 10.0 g  | 50.0 g  | 1.5 g          | 3.0 g   | 15.0 g    |
| Final Volume  | 500 ml           | 1000 ml | 5000 ml | 3000 ml        | 6000 ml | 30,000 ml |

#### Storage of 1x Buffer

Store the prepared 1x buffers at 2-6 °C refrigerator. The 1x buffers can be store up to 3 months.

#### Using the buffers

For detail information on using the buffers for preparing reagents, refer to the Test Instructions included in the ELISA Reagents and/or Kits.

If you have any questions about preparing and using the buffers, please contact AC Diagnostics.