

## **SaltRx Technical and Frequently Asked Questions**

How should one reproduce or optimize SaltRx HT reagents E5-E10 or SaltRx 2 reagents 5-10 which contain sodium/potassium phosphate?

These reagents are a mixture of Sodium phosphate monobasic monohydrate and Potassium phosphate dibasic. For the stock reagents use a 4.0 M Sodium phosphate monobasic monohydrate (catalog number HR2-551) and a 4.0 M Potassium phosphate dibasic (catalog number HR2-635). These are also available together in a kit form called Quik Optimize (catalog number HR2-223). Then use the Sodium/Potassium Phosphate Dilution Table available on the SaltRx web page which shows how much of each stock to mix with water to create the desired pH and salt concentration. Using the stock and table one can screen a concentration range of 0.2 to 4.0 M Sodium potassium phosphate and a pH range of 5.0 to 8.2.

### **SaltRx REAGENT NUMBER 53 (SaltRx HT E5, SaltRx 2 reagent 5)**

1.0 M Sodium phosphate monobasic monohydrate, Potassium phosphate dibasic / pH 5.0  
*(0.98 M Sodium phosphate monobasic monohydrate, 0.02 M Potassium phosphate dibasic)*

To make one milliliter, pipette 750 microliters of water, 245 microliters of Sodium phosphate monobasic monohydrate and 5 microliters of Potassium phosphate dibasic.

### **SaltRx REAGENT NUMBER 54 (SaltRx HT E6, SaltRx 2 reagent 6)**

1.0 M Sodium phosphate monobasic monohydrate, Potassium phosphate dibasic / pH 6.9  
*(0.35 M Sodium phosphate monobasic monohydrate, 0.65 M Potassium phosphate dibasic)*

To make one milliliter, pipette 750 microliters of water, 88 microliters of Sodium phosphate monobasic monohydrate and 162 microliters of Potassium phosphate dibasic.

**SaltRx REAGENT NUMBER 55 (SaltRx HT E7, SaltRx 2 reagent 7)**

1.0 M Sodium phosphate monobasic monohydrate, Potassium phosphate dibasic / pH 8.2

*(0.04 M Sodium phosphate monobasic monohydrate, 0.96 M Potassium phosphate dibasic)*

To make one milliliter, pipette 750 microliters of water, 10 microliters of Sodium phosphate monobasic monohydrate and 240 microliters of Potassium phosphate dibasic.

**SaltRx REAGENT NUMBER 56 (SaltRx HT E8, SaltRx 2 reagent 8)**

1.8 M Sodium phosphate monobasic monohydrate, Potassium phosphate dibasic / pH 5.0

*(1.764 M Sodium phosphate monobasic monohydrate, 0.036 M Potassium phosphate dibasic)*

To make one milliliter, pipette 550 microliters of water, 441 microliters of Sodium phosphate monobasic monohydrate and 9 microliters of Potassium phosphate dibasic.

**SaltRx REAGENT NUMBER 57 (SaltRx HT E9, SaltRx 2 reagent 9)**

1.8 M Sodium phosphate monobasic monohydrate, Potassium phosphate dibasic / pH 6.9

*(0.63 M Sodium phosphate monobasic monohydrate, 1.17 M Potassium phosphate dibasic)*

To make one milliliter, pipette 550 microliters of water, 157 microliters of Sodium phosphate monobasic monohydrate and 293 microliters of Potassium phosphate dibasic.

**SaltRx REAGENT NUMBER 58 (SaltRx HT E10, SaltRx 2 reagent 10)**

1.8 M Sodium phosphate monobasic monohydrate, Potassium phosphate dibasic / pH 8.2

*(0.072 M Sodium phosphate monobasic monohydrate, 1.728 M Potassium phosphate dibasic)*

To make one milliliter, pipette 550 microliters of water, 18 microliters of Sodium phosphate monobasic monohydrate and 432 microliters of Potassium phosphate dibasic.

HR2-221 Quik Screen 10 ml, tube format

HR2-223 Quik Optimize 100 ml, 2 bottles

HR2-551 Sodium phosphate monobasic monohydrate - 4.0 M 200 ml - solution

HR2-635 Potassium phosphate dibasic - 4.0 M solution 200 ml

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