



**LGC Clinical Diagnostics**  
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[www.mainestandards.com](http://www.mainestandards.com)

## General Admixture & Dilution Recommendations on VALIDATE® Kits

In order to save time and resources, please refer to the lot specific product insert “Typically Recovered Values” chart prior to making the decision to perform an admixture or dilution for your facility. The Product Insert will also have guidance on whether a manufacturer’s diluent is required for making dilutions or if saline/DI water can be used (see “Expected Values”). If you have questions or would like a specific dilution recommendation, please call Technical Support.

### If Validate level 1 results are below the assay range:

Mix equal parts of Validate level 1 and level 2. Analyze the admixture in triplicate (recommended). This admixture results in values above the low end of the assay range but lower than the level 2 recoveries.

### If Validate level 5 results are above the assay range:

Mix equal parts of Validate level 4 and level 5. Analyze the admixture in triplicate (recommended). This admixture results in values below the high end of the assay range but higher than the level 4 recoveries.

If the admixture recoveries are still below or above the assay range after the admixture, please contact Technical Support.

### If Validate level 1 needs to be diluted lower:

To dilute the Validate level 1 value further down, mix Validate level 1 with manufacturer’s recommended diluent, saline, or DiH<sub>2</sub>O. Use the formula below to identify how many parts of diluent needs to be added to reach the desired estimated recovered value.

$$\frac{(M1 \times P1) + (M2 \times P2)}{(P1 + P2)}$$

M1= Mean of material 1  
P1= Parts of material 1 used  
M2= Mean of material 2  
P2= Parts of material 2 used

Example:

ALB: 2 part of saline and 1 part of Validate level 1

$$\frac{(0 \times 2) + (0.3 \times 1)}{(2 + 1)} = 0.1$$



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Please contact Technical Support for any questions regarding the dilution estimated recovery formula.

## Data Reduction

When an admixture or dilution is performed, please use the dilution data submission form found on our website, <https://www.mainestandards.com/data-technical/data-submission.aspx>. Fill in the pertinent information for your facility and instrument then follow the example on the bottom of the sheet to report your data for processing.

MSDRx is able to report up to six levels at one time allowing for the admixture or dilution to be graphed along with the straight levels 1-5.

### Contact Information:

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