β-Gone™ FAQs

β-Glucuronidase Removal Products

Sample and Loading

Q: How much sample can I process per well or 1 mL tube?

A: You can process up to 200 µL of urine hydrolysate – this sample is then diluted with 133 µL of methanol, which will result in a total loading volume of 333 µL in each case. (Note: The 133 µL of methanol is equivalent to a 40 % dilution.)

Q: Do I have to use the 40 % methanol dilution?

A: Yes – However, it is possible to load 200 µL of the urine hydrolysate (undiluted), followed by a "secondary elution" of 133 µL of methanol to achieve the same results. If you want to use less than 200 µL of urine lysate, employ the following formula to determine how much methanol you need for dilution:

µL Methanol = (2/3)*(X µL Urine Hydrolysate)

Loading less than 100 µL of urine hydrolysate is not recommended.

Q: How much sample can I expect to get out of the filter?

A: β-Gone tubes and 96-well plates for recombinant enzymes contain 30 mg of sorbent and have a corresponding dead volume of ~75 µL while the β-Gone tubes and 96-well plates for non-recombinant enzymes contain 45 mg of sorbent and their dead volume is approximately ~100 µL. For information on how to appropriately calculate recovery, please see "How do I calculate recovery" below.

Extraction and Recovery

Q: How do I calculate recovery?

A: For assessing the performance of this product, it is recommended that you calculate Absolute Recovery. Absolute Recovery is defined as follows:

$$\text{Absolute Recovery} = \frac{\text{Pre-Extract Spike Peak Area}}{\text{Post-Extract Spike Peak Area}} \times 100$$

Or sometimes stated as:

$$\text{Absolute Recovery} = \frac{\text{Sample}}{\text{Reference}} \times 100$$

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QUALITY MANAGEMENT SYSTEM
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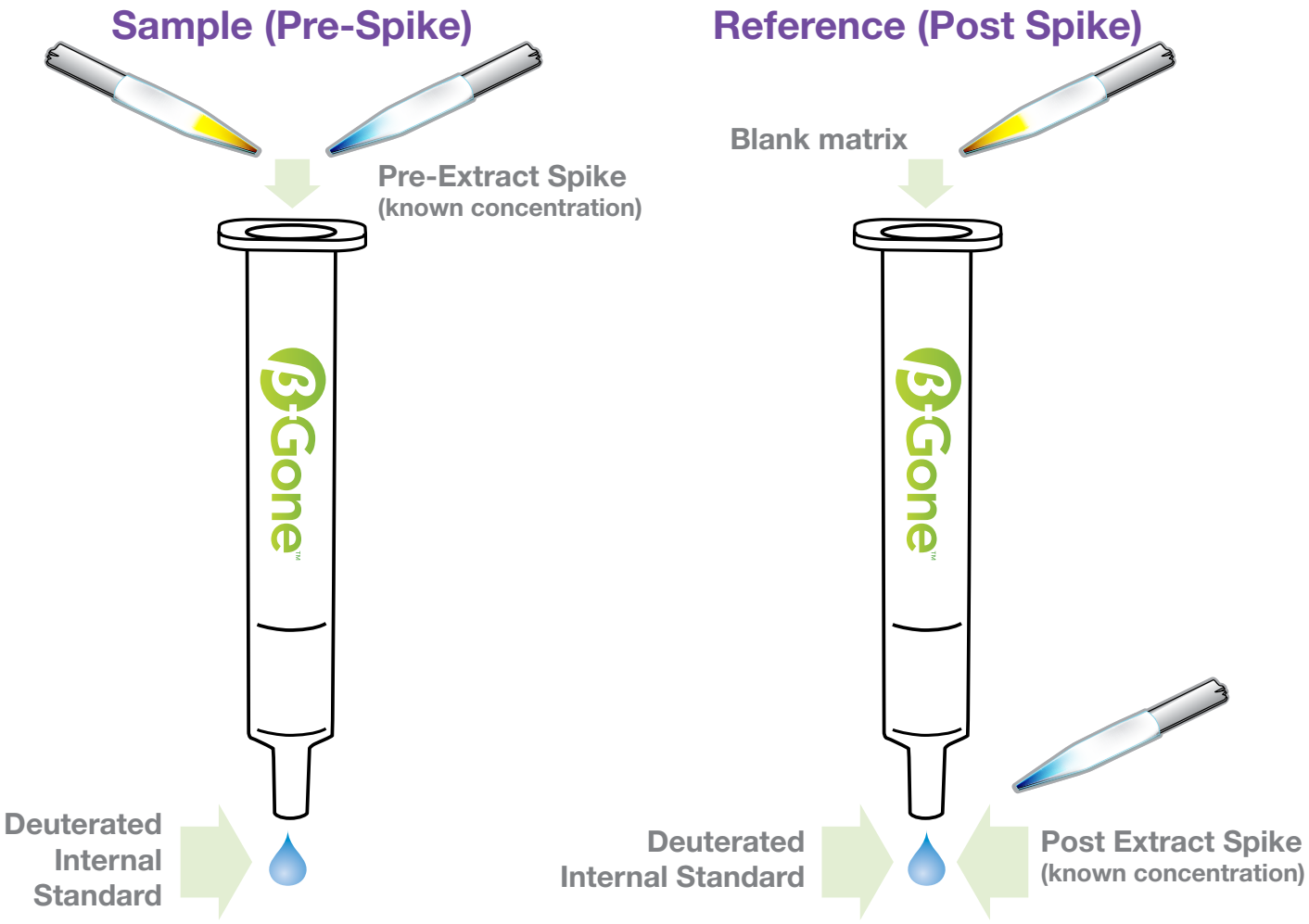
ISO 9001:2008



There can be variable amounts of reference sample (blank matrix) lost to dead volume depending on vacuum setting and time spent with vacuum open after passing the sample through the plate/tube. In order to make sure that the Post Extract Spike is spiked with the appropriate level of analyte (i.e. to match the concentration of the pre-spike) we suggest implementing the following technique:

Remove exactly 150 µL of the reference pass through and spike that to the same concentration as the pre-spike.

Please contact **support@phenomenex.com** if you would like to learn more about β-Gone and our other sample preparation products.