



# Rapid Cleanup of Hydrolyzed Urine

- Increase HPLC/UHPLC Column Lifetime
- Reduce Mass Spec Maintenance
- Maintain the Selectivity of Your HPLC/UHPLC Column

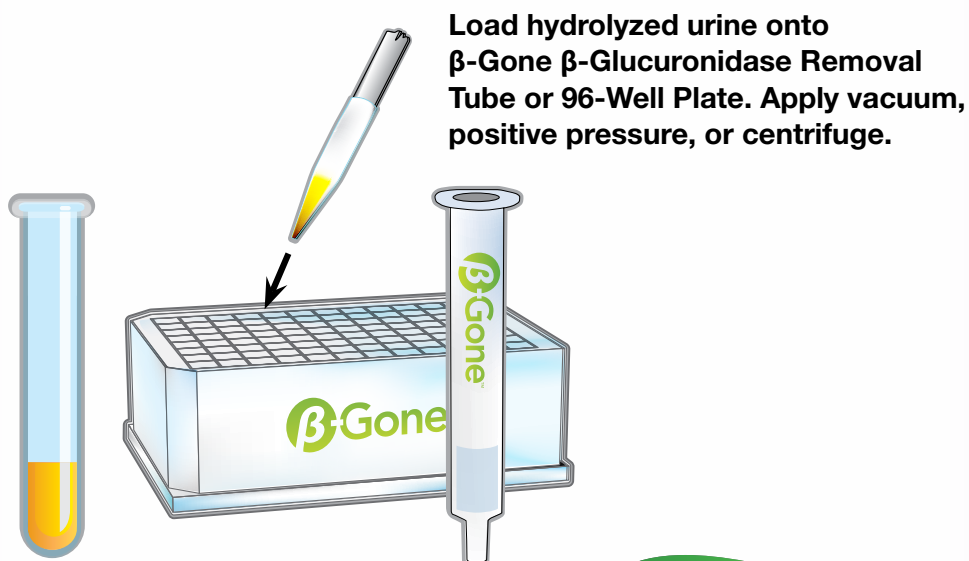


# One Step

Ensures that Your Samples  
are Free of  $\beta$ -Glucuronidase

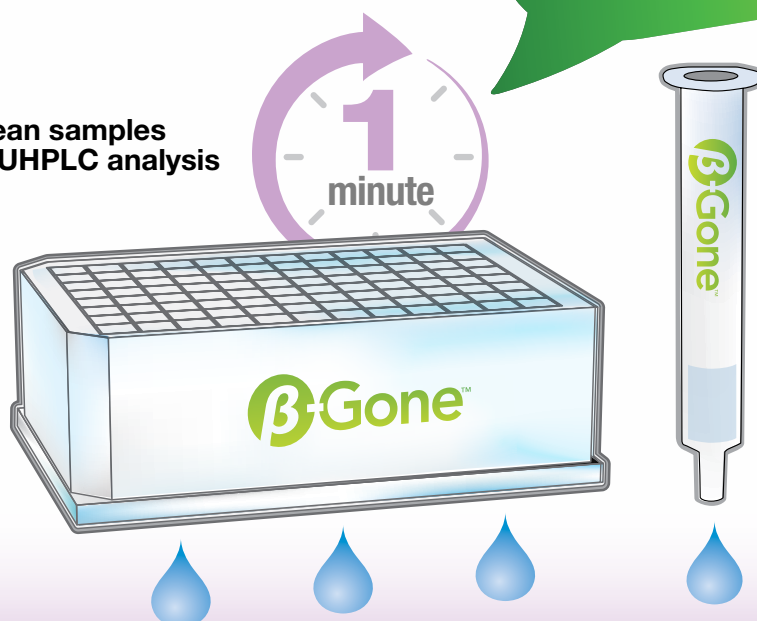


$\beta$ -Gone  $\beta$ -Glucuronidase Removal Products are designed to target and remove  $\beta$ -glucuronidase from hydrolyzed urine samples without requiring additional time or method development. In a single step and in less than 1 minute, your hydrolyzed samples are ready for analysis.



**Clean samples in  
under 1 minute!**

**Collect clean samples  
for HPLC/UHPLC analysis**

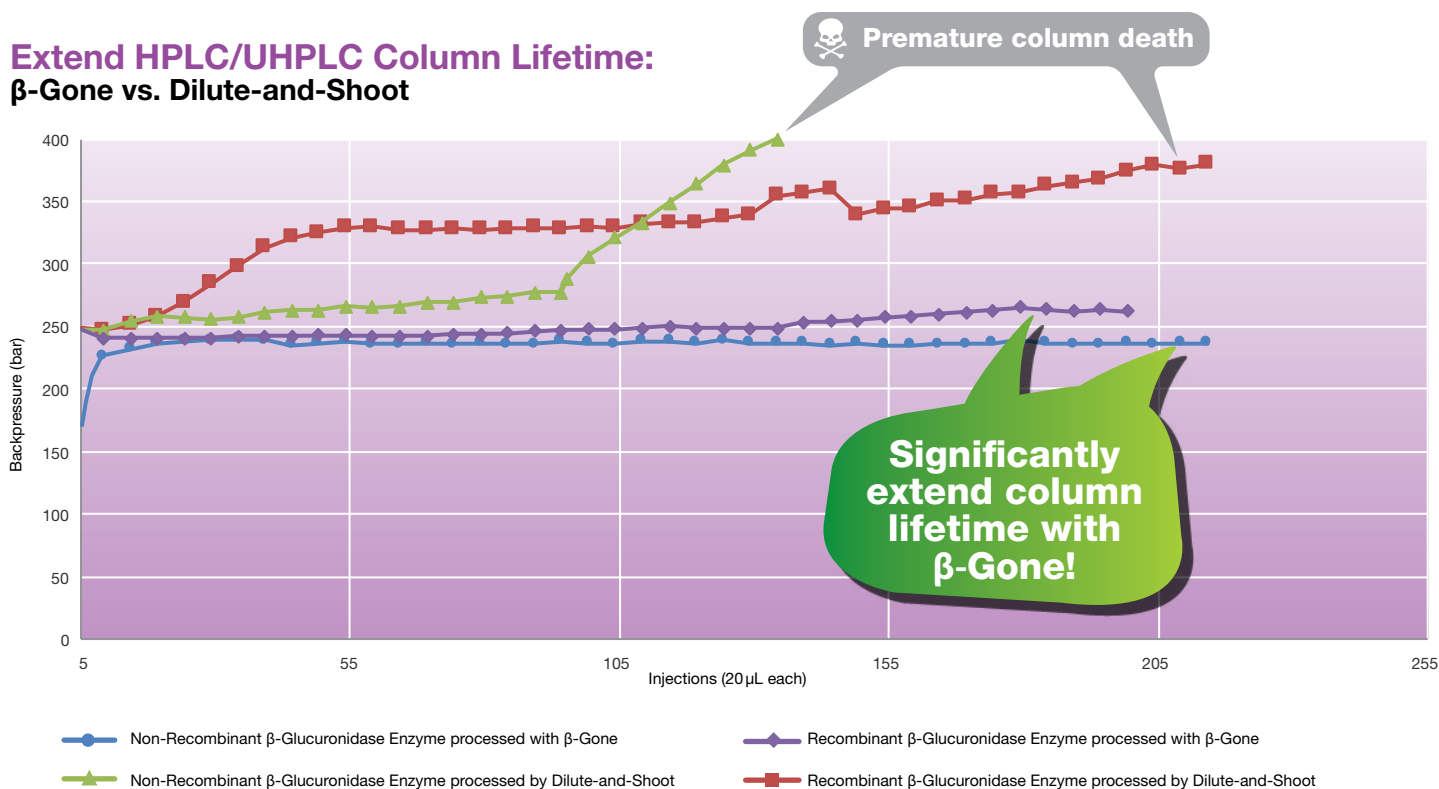


# Improve Your Chromatography

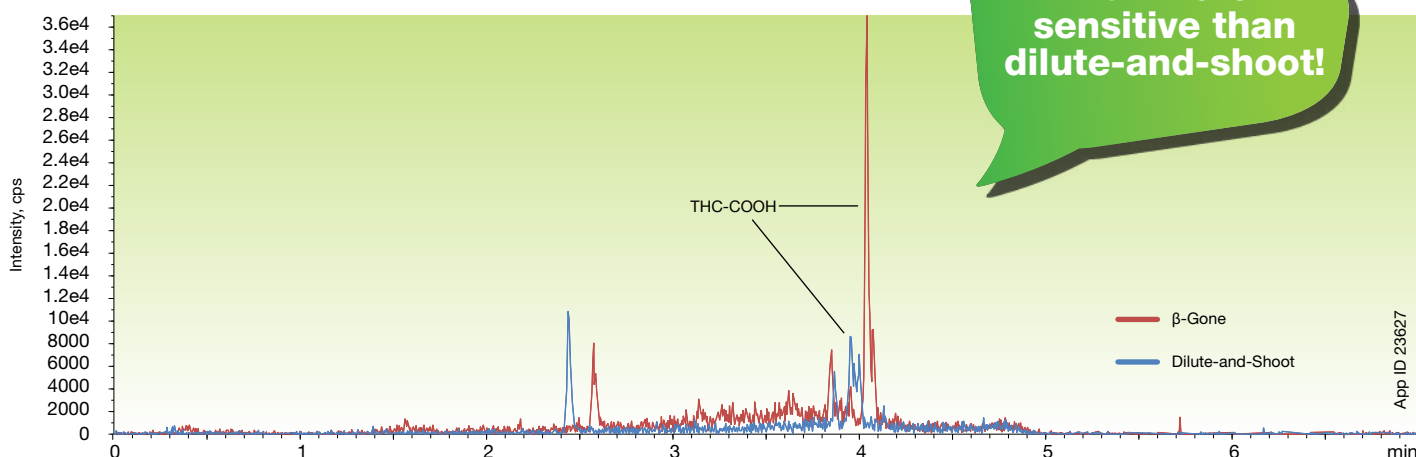


In less than 1 minute, you can reduce the amount of time and money you spend on column and system maintenance AND increase the sensitivity of your analysis!

## Extend HPLC/UHPLC Column Lifetime: β-Gone vs. Dilute-and-Shoot



## Increase Your Sensitivity: β-Gone vs. Dilute-and-Shoot



**Column:** Kinetex® 2.6 µm Biphenyl  
**Dimensions:** 50 x 2.1 mm  
**Mobile Phase:** A: 0.1% Formic acid in Water  
 B: 0.1% Formic acid in Acetonitrile

Gradient: Time (min)	% B
0.0	5
3.0	95
4.0	95
4.1	5

**Flow Rate:** 500 µL/min  
**Temperature:** Ambient  
**Detection:** MS/MS (SCIEX API 4000™)

**β-Gone Procedure:** To 200 µL spiked urine (spiked at 100 ng/mL), add 133 µL 0.1% Formic acid in Methanol. Pass through β-Gone tube or 96-well plate and collect eluent.

**Dilute-and-Shoot Procedure:** Dilute spiked urine (spiked at 100 ng/mL) 10-fold with 0.1% Formic acid in Water.

# Don't Worry, Your Analytes Aren't Going Anywhere!



β-Gone β-Glucuronidase Removal Products specifically remove β-Glucuronidase and other interferences without reducing your analyte recoveries.

## High Recoveries of Pain Management Drugs

Analyte	% Recovery	
	Non-Recombinant (natural) Enzyme	Recombinant Enzyme
6-MAM	89	109
7-Aminoclonazepam	87	76
alpha-Hydroxyalprazolam	96	93
Alprazolam	101	80
Amitriptyline	103	77
Amphetamine	99	92
Benzoylcegonine	99	110
Buprenorphine	104	91
Carisoprodol	95	75
Citalopram	106	95
Codeine	99	97
Cotinine	114	96
Diazepam	100	78
EDDP	106	84
Fentanyl	105	79
Fluoxetine	105	94
Gabapentin	97	88
Hydrocodone	104	93
Hydromorphone	99	95
Imipramine	107	90
Lorazepam	91	85
MDA	102	92
MDEA	106	89
MDMA	104	91
Meperidine	102	89
Meprobamate	93	73

Analyte	% Recovery	
	Non-Recombinant (natural) Enzyme	Recombinant Enzyme
Methadone	104	83
Methamphetamine	105	96
Methylphenidate	108	78
Morphine	100	84
Naloxone	93	109
Norbuprenorphine	110	89
Nordiazepam	85	85
Norfentanyl	109	79
Norhydrocodone	113	95
Noroxycodone	106	95
Nortriptyline	101	99
O-Desmethyltramadol	107	110
Oxazepam	90	84
Oxycodone	99	90
Oxymorphone	94	90
Paroxetine	102	90
PCP	102	65
Pregabalin	102	86
Ritalinic Acid	95	100
Tapentadol	106	85
Temazepam	93	97
THC-COOH	70	98
Tramadol	107	92
Zolpidem	106	81
Zolpidem4carboxy	96	88

# Protect Your Investments

## with $\beta$ -Gone™ $\beta$ -Glucuronidase Removal Products

### $\beta$ -Gone $\beta$ -Glucuronidase Removal Products

Part No.	Description	Unit	Price
8B-S139-TAK	1 mL Tubes, Recombinant Enzyme	100/Box	
8B-S322-DAK	1 mL Tubes, Non-Recombinant Enzyme	100/Box	
8E-S139-TGA	96-Well Plate, Recombinant Enzyme	1/Box	
8E-S322-DGA	96-Well Plate, Non-Recombinant Enzyme	1/Box	



### Increase Throughput with Affordable Bench Top Manifolds

#### Vacuum Manifolds

Part No.	Description	Unit	Price
<b>12-Position Vacuum Manifold for Tubes*</b>			
AH0-6023	12-Position Vacuum Manifold Set, complete assembly	ea	
<b>24-Position Vacuum Manifold for Tubes*</b>			
AH0-6024	24-Position Vacuum Manifold Set, complete assembly	ea	
<b>96-Well Plate Manifold</b>			
AH0-8950	96-Well Plate Manifold, Universal with vacuum gauge	ea	

\*Manifolds include: Vacuum-tight glass chamber, vacuum gauge assembly, polypropylene lid with gasket, male and female luers and yellow end plugs, stopcock valves, collection rack assemblies, polypropylene needles, lid support legs. Waste container included with 12-position manifold.



guarantee

If  $\beta$ -Gone  $\beta$ -Glucuronidase Removal Products do not perform as well or better than your current  $\beta$ -glucuronidase removal method, return the product with comparative data within 45 days for a FULL REFUND.

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