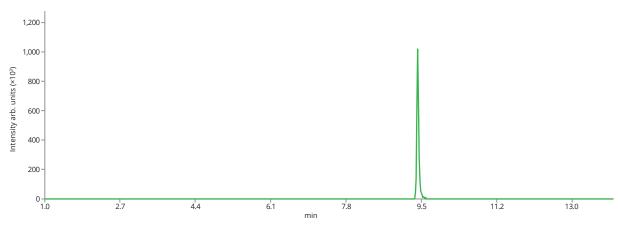
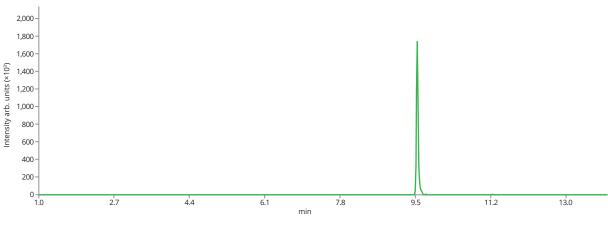


## **Antidiabetic drugs**

Diabetes is a chronic condition that occurs when the body cannot produce any or enough insulin, or cannot effectively use the insulin it produces. Type 2 diabetes has attained the status of a global pandemic. Sulfonylureas represent a class of medications used in the treatment of type 2 diabetes mellitus. All sulfonylureas contain a phenyl-sulfonyl-urea structure, which exerts the hypoglycemic effect. An efficient and reliable LC/MS method has been developed for control of antidiabetic medications of sulfonylurea class glibenclamide and glimepiride.



Glibenclamide RT: 9.43, m/z 494.1516



Glimepiride RT: 9.56, m/z 491.2328

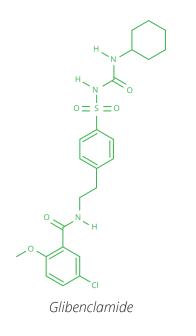
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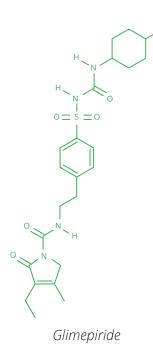
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**APPLICATION LIST #564** 

## Antidiabetic drugs

Column	ASTRA® C18-HE, 3 µm						
Dimensions	75 mm × 2.1 mm						
Part number	AST-5732-IH21						
Mobile phase	A: DDW + 0.1% Formic Acid						
	B: ACN	B: ACN + 0.1% Formic Acid					
<b>Gradient elution</b>	Time	A (%)	B (%)	Time	A (%)	B (%)	
	0	90	10	14	0	100	
	1	90	10	14.01	90	10	
	4	75	25	15	90	10	
	8	60	40	17	90	1	
	10	0	100				
Flow rate	0.35 mL/min						
Temperature	23 °C						
Detection	Full scan (resolving power 120 000, m/z 200), positive mode						
Injection volume	5 μL						
Analytes	<b>1. Glibenclamide (glyburide)</b> , CAS number 10238-21-8						
-	2. Glir	2. Glimepiride, CAS number 261361-60-8					





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