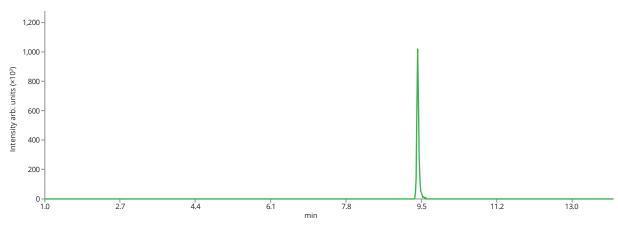
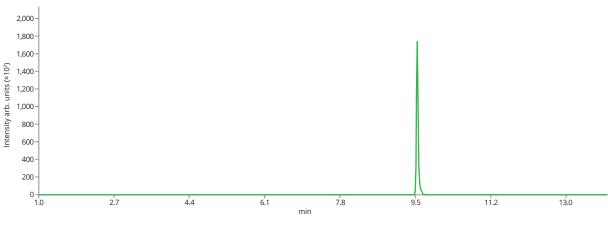


Antidiabetic drugs

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

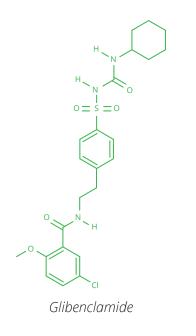
www.chromservis.eu

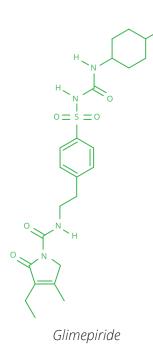
ASTRA® is a trademark registered by Chromservis s.r.o. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and/or names or their products and are the property of their respective owners. We disclaim proprietary interest in the marks and names of others.

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					
Gradient elution	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	1. Glibenclamide (glyburide) , CAS number 10238-21-8						
-	2. Glir	2. Glimepiride, CAS number 261361-60-8					





www.chromservis.eu

ASTRA® is a trademark registered by Chromservis s.r.o. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and/or names or their products and are the property of their respective owners. We disclaim proprietary interest in the marks and names of others.