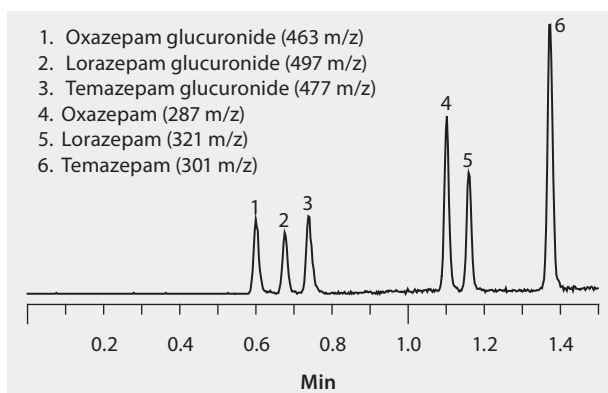


## UHPLC/MS Analysis of Benzodiazepines and Glucuronide Metabolites on Titan™ C18

Benzodiazepines are a class of commonly prescribed psychoactive drugs. Shown here is the rapid and efficient UHPLC separation of three benzodiazepines and their glucuronide metabolites on a Titan C18 column. Fluka CHROMASOLV solvents provided clean, robust operation. Cerilliant CRMs provided reliable quantification.

market focus	Clinical; Pharmaceutical (small molecule)
column	Titan C18 5 cm x 3.0 mm, 1.9 µm particles (577126-U)
mobile phase	[A] 0.1% formic acid in 95:5, water:acetonitrile; [B] 0.1% formic acid in 5:95, water:acetonitrile;
gradient	35 to 60% B in 1 min; held for 0.5 min
flow rate	0.6 mL/min
pressure	5800 psi (400 bar)
column temp.	35 °C
detector	MS-TOF, ESI+, XIC, 100 -1000 m/z scan
injection	2 µL
sample	300 ng/mL in 97:3, water:methanol
Application No.	G006150



### Related Products

#### analytical column

Titan™ C18 UHPLC Column, 1.9 micron ([Supelco 577126-U](#))

#### mobile phase component

Acetonitrile ([Fluka 14261](#))

Formic acid ([Fluka 14265](#))

Water ([Fluka 14263](#))

#### standard

Lorazepam solution ([Cerilliant L-901](#))

Lorazepam glucuronide solution ([Cerilliant L-021](#))

Oxazepam solution ([Cerilliant O-902](#))

Oxazepam glucuronide solution ([Cerilliant O-023](#))

Temazepam solution ([Cerilliant T-907](#))

Temazepam glucuronide lithium salt solution ([Cerilliant T-050](#))