

In addition to the classical TCAs (see pages 146 - 147) a variety of newer antidepressants (ADP) is available for the treatment of depressions, such as selective serotonin and norepinephrine reuptake inhibitors (SSRIs, SNRIs, NRIs) and TeCAs.

The ClinMass® Add-on Set for Antidepressants (order no. MS9450) contains all analyte specific components required for the quantification of 27 different ADPs and metabolites.

The ClinMass® TDM Platform (order no. MS9050) contains the components needed for on-line SPE LC-MS/MS analysis. It can be used with all ClinMass® Add-on Sets of the "TDM Kit System, on-line" (BZP, TCA, ...). The analytical column is suitable for the whole analyte panel (103 compounds).

TDM Kit System, on-line

Antidepressants in Serum / Plasma

Test Data

Test data are available on request.

LC-MS/MS Parameters

LC-Parameters

Pump 1 (SPE): gradient program
(0.1 - 3.5 ml/min)

Pump 2 (Mobile Phase A, B):
gradient program
(0.7 ml/min)

Injection volume: 3 - 15 µl*

Injection interval: 4.8 min

Column heater: 40 °C

* depending on the sensitivity of the mass spectrometer

MS-Parameters

Ion source: ESI, positive

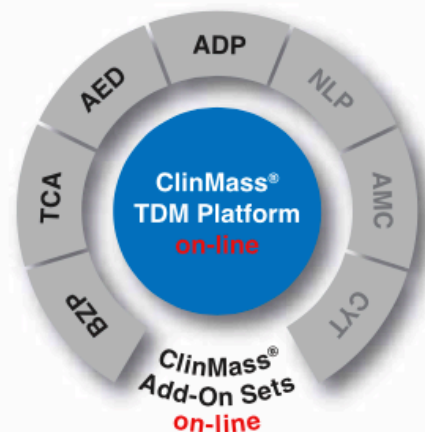
MS/MS mode: MRM

Sample Preparation

No manual sample preparation needed!

Direct injection of sample and Internal Standard IS in the ratio 1:2 (autosampler).

Fully automated on-line method!

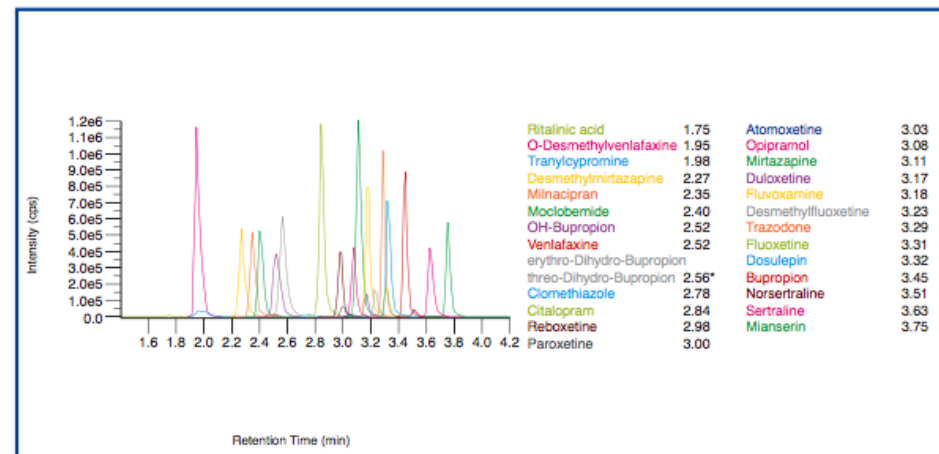


→ No manual sample preparation needed

→ Flexible and fast LC-MS/MS Analysis (4.8 min)

→ IS contains 20 isotope labeled analytes

Chromatogram of the ClinCal® Serum Calibrator, Level 2 (order no. MS9413)



*erythro- and threo-Dihydro-Bupropion can be separated by a modified gradient in an extra run

Ordering Information

Order No.	Description	Quantity
MS9050	ClinMass® TDM Platform, on-line for 400 assays	1 pce.
Components (order no. MS9050):		
MS9005	Autosampler Washing Solution	1000 ml
MS9007	Mobile Phase A	2 x MS9007 (2 x 1000 ml)
MS9008	Mobile Phase B	1000 ml
MS9059	SPE-Buffer Load L	2 x MS9059 (2 x 2500 ml)
MS9060	SPE-Buffer Wash W	2 x MS9060 (2 x 2500 ml)
MS9071	Reconstitution Solution R	5 ml
Start Accessories:		
MS9035	Analytical Column with test chromatogram	1 pce.
MS9031	SPE-Column	1 pce.
MS9032	Prefilter	1 pce.
Accessories:		
MS9022	Diluting Solution D	50 ml
FK7400	Inline-Filter (stainless steel sieve, free of dead volume)	1 pce.
FK7340	Seallings and sieves	4 pcs. each
MS9450	ClinMass® Add-on Set, on-line, for Antidepressants in Serum / Plasma for 400 assays	1 pce.
Components (order no. MS9450):		
MS9462	Internal Standard IS, lyophil.	5 ml
MS9413	Serum Calibrator Set, lyophil. (Level 0 - 3) Manual	4 x 1 x 1 ml 1 pce.
Start Accessories:		
MS9414	Optimisation Mix, lyophil.	2 x 2 ml
ClinChek® Controls:		
MS9482	Serum Control, lyophil., Level I, II	2 x 5 x 1 ml