

The RECIPE analytical method for levetiracetam completes the RECIPE kit portfolio for the analysis of antiepileptic drugs (AED). The sample preparation can be performed either manually (complete kit with order no. 15500) or automated with the Gilson® ASPEC™ pipetting system (order no. 15600). By the use of the same analytical column, the kits can easily be combined with the AED test kit with order no. 14000 (see pages 82 - 83) which allows the quantification of further 16 different drugs and clinically relevant metabolites.



→ 1 analytical column for levetiracetam and further 16 AEDs

→ Optional: method with automated sample preparation

Antiepileptic Drugs

Levetiracetam (Keppra®) in Serum and Plasma

– Manual Sample Preparation
– with Gilson® ASPEC™

Test Data

Manual / Automated Processing (Gilson® ASPEC™)

Linearity: 0.5 - 1000 / 0.5 - 200 mg/l
Recovery: 97 - 105 / 90 - 102 %
LOD: 0.15 mg/l
LLOQ: 0.5 mg/l
Intraassay precision: 1.5 / 1.2 %
Interassay precision: 1.9 / 1.9 %

HPLC Parameters

Pump: isocratic pump,
flow rate: 1.4 ml/min
Injection volume: 20 µl
Injection interval: 6 min
UV-Detector: 205 nm
HPLC-Thermostat: 30 °C

Sample Preparation

Manual / Automated Processing (Gilson® ASPEC™)

Extraction:

Apply (conditioned* sample preparation column):	
Sample (100 µl / 50 µl)	Internal Standard IS (100 µl / 50 µl)

wash with ↓
1. Washing Solution W1
(3 ml / 1 ml)
2. Washing Solution W2
(1 ml / 330 µl)

Elution:

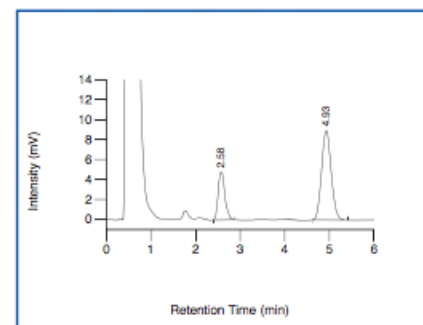
Apply Eluting Reagent E (1 ml / 500 µl)
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HPLC Analysis:

Inject 20 µl

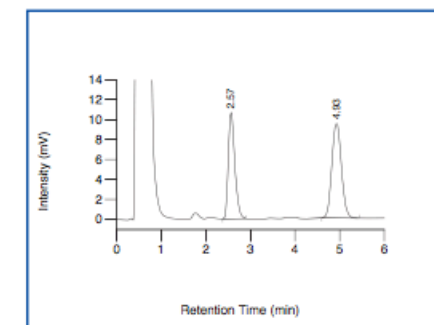
* Conditioning with Conditioning Reagent C and Washing Solution W1

ClinChek® Serum Control, Level I



Levetiracetam: 2.58 min, IS: 4.93 min

ClinChek® Serum Control, Level II



Levetiracetam: 2.57 min, IS: 4.93 min

Ordering Information

Order No.	Description	Quantity
ClinRep® Complete Kit for Levetiracetam in Serum / Plasma		
15500	– manual sample preparation, for 100 assays	1 pce.
15600	– with Gilson® ASPEC™, for 200 assays	1 pce.
Kit Components :		
– order no. 15500		
15510	Mobile Phase	1000 ml
15520	Sample Preparation Columns	2 x 15520 (2 x 50 pcs.)
15522	Washing Solution W1	3 x 15522 (3 x 200 ml)
– order no. 15600		
15510	Mobile Phase	2 x 15510 (2 x 1000 ml)
15620	Sample Preparation Columns	2 x 15620 (2 x 100 pcs.)
15522	Washing Solution W1	2 x 15522 (2 x 200 ml)
– order nos. 15500 / 15600		
15511	Standard Solution	3 ml
15512	Internal Standard IS	10 ml
15513	Serum Calibrator, lyophil.	3 ml
15521	Conditioning Reagent C	300 ml
15523	Washing Solution W2	100 ml
15524	Eluting Reagent E	100 ml
	Manual	1 pce.
	Quick Reference	1 pce.
Start Accessories:		
14030	Analytical Column with test chromatogram	1 pce.
Accessories:		
FK5810	PEEK tubing (connection of prefilter and column)	1 pce.
FK5820	Stainless steel prefilter holder	1 pce.
FK5821	Replacement filter for stainless steel prefilter holder	10 pcs.
ClinChek® Controls:		
15580	Serum Control, lyophil., Level I	10 x 3 ml
15581	Serum Control, lyophil., Level II	10 x 3 ml
15582	Serum Control, lyophil., Level I, II	2 x 5 x 3 ml