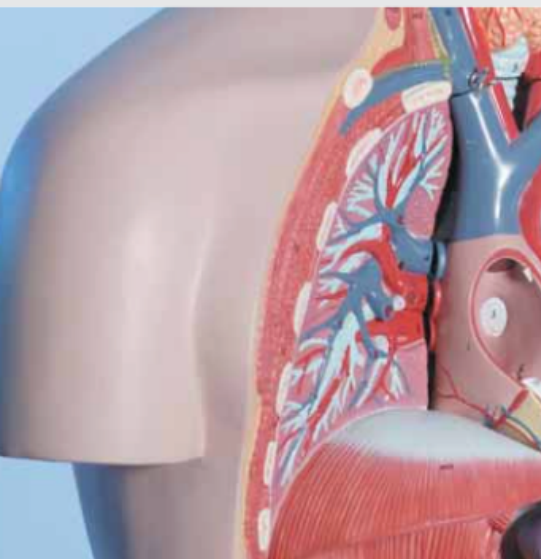


Epinephrine (E), norepinephrine (NE), and dopamine (D) are termed as catecholamines. The determination of catecholamines is primarily used for helping to detect and rule out pheochromocytomas in symptomatic patients, i.e. in patients with persistent hypertension. It is also used in order to help monitor for recurrence when a pheochromocytoma has been discovered and removed. For these purposes, this ClinRep® Complete Kit allows for a quick and safe quantification of the catecholamines. The kit is easy to use and is characterised by an extraordinarily good lower detection limit.



→ Reliable sample preparation

→ Quick and safe quantification

→ Detection limit: 5 ng/l

Biogenic Amines

Catecholamines in Plasma

Test Data

Linearity: 10 - 2500 ng/l
 Recovery: 70 - 90 %
 LOD: 5 ng/l
 LLOQ: 10 ng/l
 Intraassay precision: 6.7 % (NE),
 7.6 % (E),
 6.1 % (D)
 Interassay precision: 5.3 % (NE),
 4.2 % (E),
 3.9 % (D)

HPLC Parameters

Pump: isocratic pump,
 flow rate: 1.0 ml/min
 Injection volume: 40 µl
 Injection interval: 15 min
 EC-Detector: potential: 500 mV,
 sensitivity: 10 nA
 Temperature: 25 °C (or ambient)

Sample Preparation

Extraction:

Apply 1 ml plasma and 50 µl Internal Standard IS to a sample preparation column

↓ wash (3 x 1 ml Washing Solution W)

Elution:

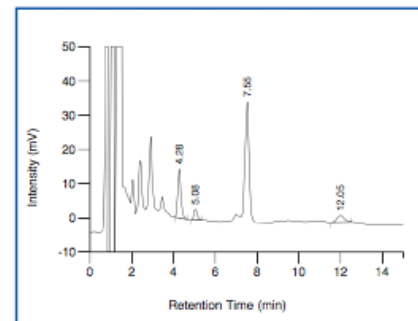
Elute with 120 µl Eluting Reagent E

↓ collect the eluate

HPLC Analysis:

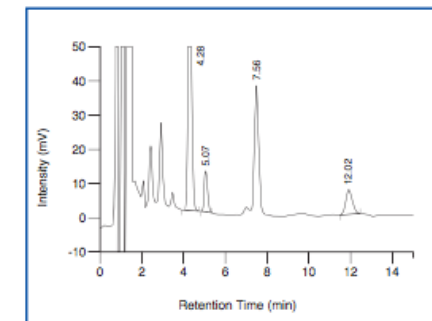
Inject 40 µl

ClinChek® Plasma Control, Level I



Norepinephrine: 4.28 min, Epinephrine: 5.08 min,
 IS: 7.55 min, Dopamine: 12.05 min

ClinChek® Plasma Control, Level II



Norepinephrine: 4.28 min, Epinephrine: 5.07 min,
 IS: 7.56 min, Dopamine: 12.02 min

Ordering Information

Order No.	Description	Quantity
1000	ClinRep® Complete Kit for Catecholamines in Plasma for 250 assays	1 pce.
Kit components (order no. 1000):		
1210	Mobile Phase	1000 ml
1011	Standard Solution	10 ml
1012	Internal Standard IS	15 ml
1013	Plasma Calibrator, lyophil.	5 x 5 ml
1020	Sample Preparation Columns incl. elution vials	5 x 1020 (5 x 50 pcs.)
1021	Washing Solution W	3 x 1021 (3 x 250 ml)
1022	Eluting Reagent E	30 ml
	Manual	1 pce.
	Quick Reference	1 pce.
Start Accessories:		
1030	Analytical Column with test chromatogram	1 pce.
Accessories:		
1041	2 ml sample vial with cap for storing samples	50 pcs.
1042	Sampling system for Plasma Catecholamines (5 ml)	50 pcs.
1060	Sample preparation column, empty with frit and cap	50 pcs.
1061	250 µl elution vial with cap	50 pcs.
1070	Alumina oxide	5 g
1072	2 M Tris Buffer	250 ml
ClinChek® Controls:		
8810	Plasma Control, lyophil., Level I	10 x 5 ml
8811	Plasma Control, lyophil., Level II	10 x 5 ml
8809	Plasma Control, lyophil., Level I, II	2 x 5 x 5 ml