

With this complete kit, the determination of norepinephrine (NE), epinephrine (E), and dopamine (D) is performed from urine. The sample preparation features particular user friendliness for laboratory routine. For a safe and convenient check-up of the pH-value prior to sample extraction, a special stabilising reagent with colour indicator is available. The distinct indicator colouring assures the setting of the appropriate pH value range (pH 2 – 5). Alternatively to this method with manual sample preparation, RECIPE offers ClinRep® Complete Kits for use with automatic pipetting systems from Gilson® and HTA (see pages 22 - 23).



Biogenic Amines

Catecholamines in Urine

Test Data

Linearity: 2 - 1000 µg/l

Recovery: 70 - 85 %

LOD / LLOQ: 1 µg/l / 2 µg/l

Precision

Intraassay: 0.8 % (NE), 1.4 % (E), 1.7 % (D)

Interassay: 2.0 % (NE), 2.3 % (E), 3.1 % (D)

HPLC Parameters

Isocratic Pump: flow rate: 1.0 ml/min

Injection vol. / int.: 20 µl / 15 min

EC-Detector: pot.: 500 mV, sen.: 10 nA

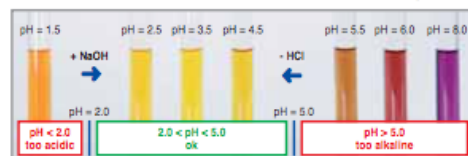
HPLC-Thermostat: 30 °C

Sample Preparation

Addition of IS / pH adjustment:

3 ml urine	5 ml Stab. Reagent S (contains colour indic.)	30 µl Internal Standard IS
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↓ adjust with 1 M NaOH, until the indicator switches to yellow



Extraction:

Apply the whole sample on the sample preparation column

Elution:

↓ wash (HPLC water)

Apply 6 ml Eluting Reagent E

HPLC Analysis:

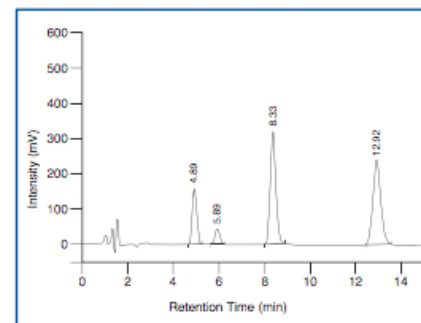
Inject 20 µl

→ Safe and convenient pH-adjustment

→ Robust chromatography

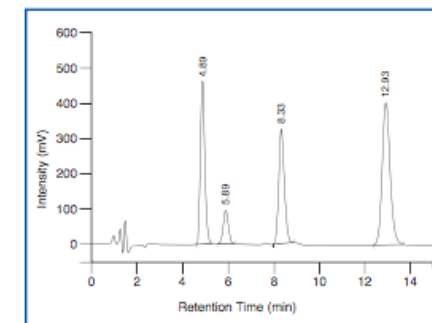
→ Detection limit: 1 µg/l

ClinChek® Urine Control, Level I



Norepinephrine: 4.89 min, Epinephrine: 5.89 min, IS: 8.33 min, Dopamine: 12.92 min

ClinChek® Urine Control, Level II



Norepinephrine: 4.89 min, Epinephrine: 5.89 min, IS: 8.33 min, Dopamine: 12.93 min

Ordering Information

Order No.	Description	Quantity
2000	ClinRep® Complete Kit for Catecholamines in Urine for 100 assays	1 pce.
Kit Components (order no. 2000):		
1210	Mobile Phase	1000 ml
2011	Standard Solution	10 ml
2012	Internal Standard IS	3 ml
2013	Urine Calibrator, lyophil.	5 x 8 ml
2020	Sample Preparation Columns	2 x 2020 (2 x 50 pcs.)
2021	Stabilising Reagent S	500 ml
2024	Eluting Reagent E	2 x 2024 (2 x 300 ml)
	Manual	1 pce.
	Quick Reference	1 pce.
Start Accessories:		
2030	Analytical Column with test chromatogram	1 pce.
Accessories:		
FK4000	Column Rack (for 20 columns)	1 pce.
ClinChek® Controls:		
8820	Urine Control, lyophil., Level I	10 x 8 ml
8821	Urine Control, lyophil., Level II	10 x 8 ml
8822	Urine Control, lyophil., Level I, II	2 x 5 x 8 ml