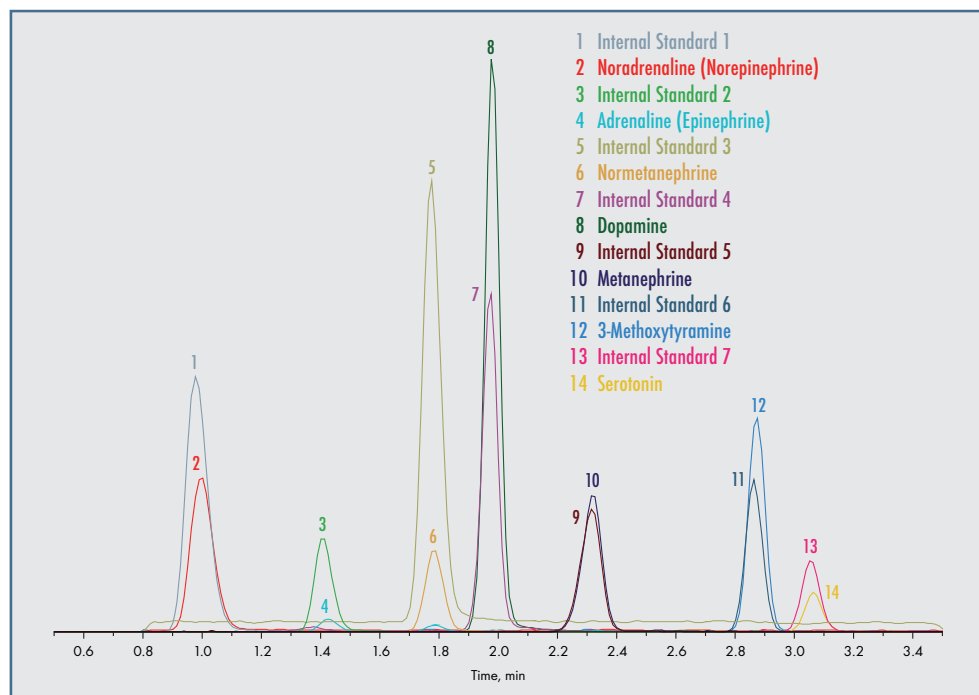


MassChrom® Catecholamines, free Metanephrines, Serotonin in Urine with Sample Clean Up Columns Sample Prep Set for LC-MS/MS Analysis

- > Identical Chromatographic Platform for all Sample Prep Sets
- > 7 analytes with one Sample Prep Set
- > Isotopically labelled internal standards
- > 6PLUS1® Multilevel Calibrator Set & MassCheck® controls



The Sample Prep Set Catecholamines, free Metanephrines and Serotonin in Urine allows the quantitative determination of adrenaline (epinephrine), noradrenaline (norepinephrine), dopamine, metanephrine, normetanephrine, 3-methoxytyramine and serotonin in patient urine samples by LC-MS/MS. One typical application for this kit is the analysis of patient samples with suspected catecholamine or serotonin secreting tumors.

The Sample Prep Set encompasses all required components for an efficient and fast sample preparation by solid phase extraction (SPE) with Sample Clean Up Columns. The correct pH, required for a precise analysis, is verified quickly and conveniently by a colour indicator and can be adjusted with a specific reagent. The 6PLUS1® Multilevel Calibrator Set and MassCheck® controls ensure high precision of results.

There is also a method using 96 SPE Well Plates (80600/96 & 80600/480) as well as the corresponding fully automated method available for laboratories with a higher sample throughput.

SPECIFICATIONS

Linearity: 1600–5000 µg/l
 Limit of quantification: 1.0–13.5 µg/l
 Intraassay: CV = 1.5–8.1 %
 Interassay: CV = 3.1–10.7 %
 Analysis time: 4 min

PRE-ANALYTIC TREATMENT

Specimens: 24 h urine collected in a suitable container with 10 ml of 10–25 % HCl. Spontaneous urine can be also analysed (see instruction manual).
 Sample stability: Patient specimens are stable for at least 7 days at +2 to +8 °C in amber coloured vials. For longer storage periods keep samples frozen below -18 °C.

SAMPLE PREPARATION

- > Pipette 200 µl of the sample/calibrator/MassCheck® control into each Sample Clean Up Column.
- > Add 50 µl Internal Standard Mix and 600 µl Neutralisation Buffer.
- > Check for correct colour.
- > Centrifuge 5 min at 150 x g, discard effluent.
- > Add 0.9 ml Wash Buffer 1 and centrifuge 5 min at 150 x g, discard effluent.
- > Add 2 x 0.9 ml Wash Buffer 2 and centrifuge each time 1 min at 150 x g, discard effluent.
- > Centrifuge 1 min at 2000 x g to dryness, discard effluent.
- > Put Sample Clean Up Columns on new glass collection vials (e.g. glass autosampler vials).
- > Add 500 µl Elution Buffer and centrifuge 2 min at 100 x g.
- > Add 500 µl Dilution Buffer to each glass vial.
- > Seal each glass vial.
- > Shortly vortex each glass vial and transfer vials to autosampler.
- > Inject up to 10 µl.

LC-MS/MS PARAMETERS

Injection volume: ≤ 10 µl
 Ionisation: ESI positive
 MS/MS-Mode: MRM

ORDERING INFORMATION

These products are not available in all countries

Order no.	Product
80000	MassChrom® Biogenic Amines/Metabolites in Urine: Chromatographic Platform Starter Set
	Components available separately:
80001	Mobile Phase A, 1000 ml
80002	Mobile Phase B, 500 ml
80009	Rinsing Solution, 1000 ml
80100	Analytical column (equilibrated with test chromatogram), 1 pc.
80600/C	MassChrom® Biogenic Amines/Metabolites in Urine: Catecholamines, free Metanephrines, Serotonin with Sample Clean Up Columns Sample Prep Set for 96 analyses
	Components available separately:
80604	Internal Standard Mix, 5 ml
80605	Neutralisation Buffer, 60 ml
80606	Wash Buffer 1, 90 ml
80607	Wash Buffer 2, 90 ml
80608	Elution Buffer, 50 ml
80609	Dilution Buffer, 50 ml
80055	Sample Clean Up Columns MassChrom® Biogenic Amines/Metabolites in Urine, 96 pcs.
	Startup Accessories:
80615	Tuning Mix, Internal Standards and Analytes, 1 ml
80610	System Check Solution, 1 ml
80603	Adjustment Reagent, 10 ml
15070	Stainless steel prefilter housing, 1 pc.
15071	Stainless steel prefilter, 0.5 µm, 5 pcs.
33007	Tubes for sample preparation, 50 pcs.
J0601	Autosampler vials, screw neck, amber glass, 1.5 ml, 100 pcs.
J0504	PE Screw-on caps, rubber/PTFE septa, 9 mm, 100 pcs.
	Chromsystems Multilevel Calibrator and MassCheck® Controls (lyoph.):
80639	6PLUS1® Multilevel Urine Calibrator Set Catecholamines, free Metanephrines, Serotonin, 7 x 2 ml
0372	MassCheck® Catecholamines, free Metanephrines, Serotonin Urine Control Level I, 5 x 2 ml
0373	MassCheck® Catecholamines, free Metanephrines, Serotonin Urine Control Level II, 5 x 2 ml

