

Biogenic Amines in Plasma and Urine by LC-MS/MS



Catecholamines
Metanephtrines
Serotonin
VMA, HVA, 5-HIAA

MassChrom[®] Biogenic Amines

- > Complete kits for the determination in plasma and urine
- > Fast and efficient sample preparation procedures
- > Isotope-labelled, stable internal standards for every single analyte
- > 6PLUS1[®] Multilevel Calibrator Sets and *MassCheck*[®] controls
- > Fully automated workflows available

MassChrom[®] Biogenic Amines in Plasma

81000	MassChrom[®] Free Metanephrines in Plasma with 96 SPE Well Plates - 2 x 96 Tests
81000/C	MassChrom[®] Free Metanephrines in Plasma with Sample Clean Up Columns - 2 x 96 Tests

MassChrom[®] Biogenic Amines/Metabolites in Urine

80000	Chromatographic Platform
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Sample Prep Sets

80600/96	Catecholamines, free Metanephrines, Serotonin in Urine with 96 SPE Well Plate - 96 Tests
80600/480	Catecholamines, free Metanephrines, Serotonin in Urine with 96 SPE Well Plates - 480 Tests
80600/C	Catecholamines, free Metanephrines, Serotonin in Urine with Sample Clean Up Columns - 96 Tests
80700/96	Total Metanephrines (free + conjugated) in Urine with 96 SPE Well Plate - 96 Tests
80700/C	Total Metanephrines (free + conjugated) in Urine with Sample Clean Up Columns - 96 Tests
80800/96	VMA, HVA, 5-HIAA in Urine with Collection Plates - 96 Tests
80800/480	VMA, HVA, 5-HIAA in Urine with Collection Plates - 480 Tests
80800	VMA, HVA, 5-HIAA in Urine with Autosampler Vials - 96 Tests

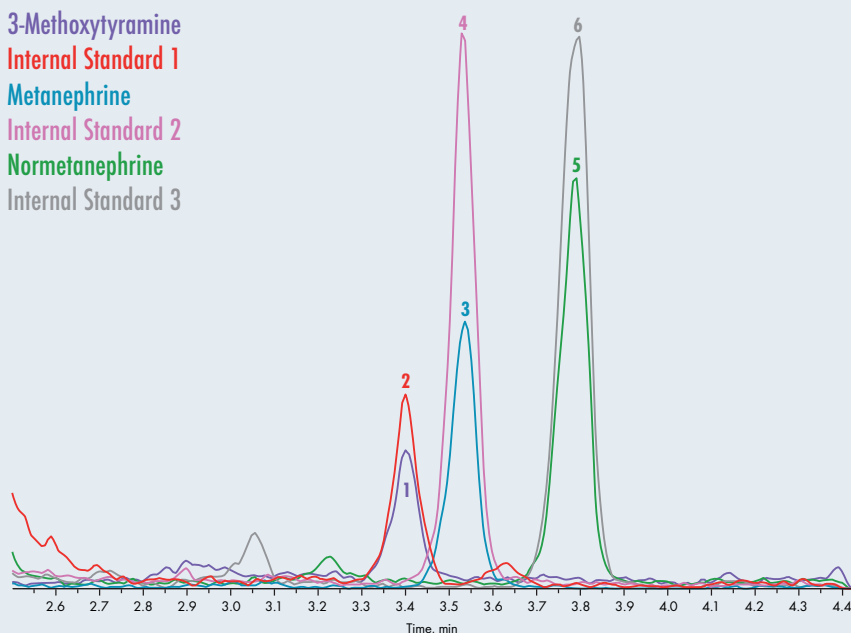
Our Assay in Plasma

- > 6PLUS1[®] Multilevel Calibrator Set and **MassCheck**[®] controls based on human plasma
- > Simple sample prep in just a few steps
- > Chromatographic separation of analytes – no co-elution
- > Available with Sample Clean Up Columns or 96 SPE Well Plate

MassChrom[®] Free Metanephrines in Plasma

No. 81000, 81000/C

- 1 3-Methoxytyramine
- 2 Internal Standard 1
- 3 Metanephrine
- 4 Internal Standard 2
- 5 Normetanephrine
- 6 Internal Standard 3



Specifications

Limit of quantification: down to 7 ng/l
 Linearity: up to 8500 ng/l
 Recovery: 89–100 %
 Intraassay: CV = 2.7–6.9 %
 Interassay: CV = 3.3–8.6 %
 Injection volume: ≤ 25 µl
 Analysis time: 5 min

Parameters

Free Metanephrine
 Free Normetanephrine
 Free 3-Methoxytyramine

Both kits include the following components:

Mobile Phases, Rinsing Solution, Internal Standard Mix, Wash Buffer and Elution Buffer.

Accessories:

- Analytical column
- 6PLUS1[®] Multilevel Calibrator Set
- **MassCheck**[®] controls
- Tuning Mix for instrument setup
- System Check Solution for system performance monitoring on a daily basis

Our Assays in Urine

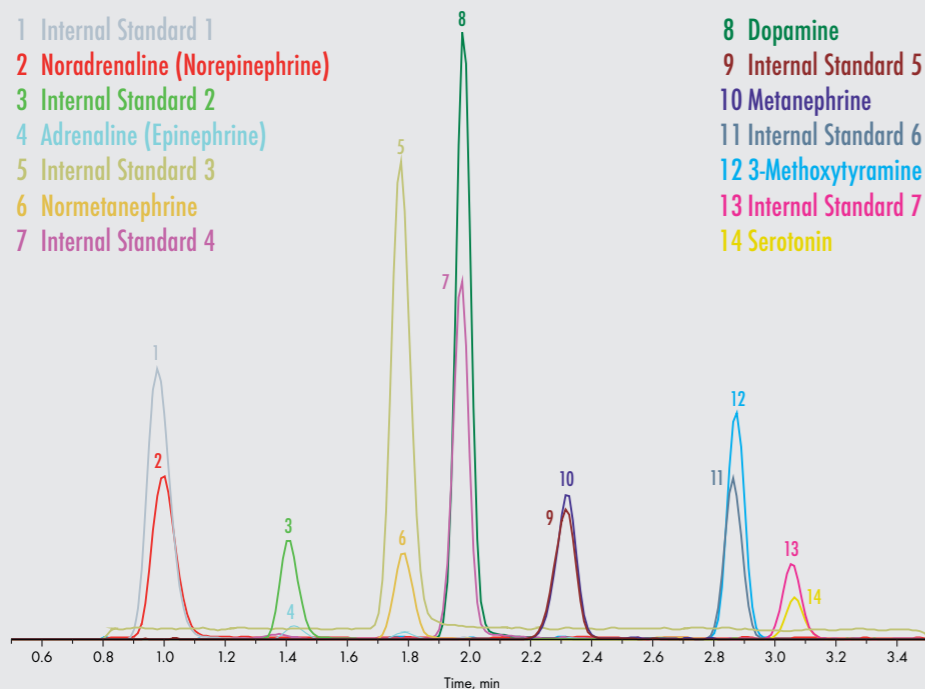
One Chromatographic Platform for all Parameters!

No. 80000

Chromatographic Platform *MassChrom*® Biogenic Amines/Metabolites in Urine
consisting of Mobile Phases, Rinsing Solution and Analytical Column



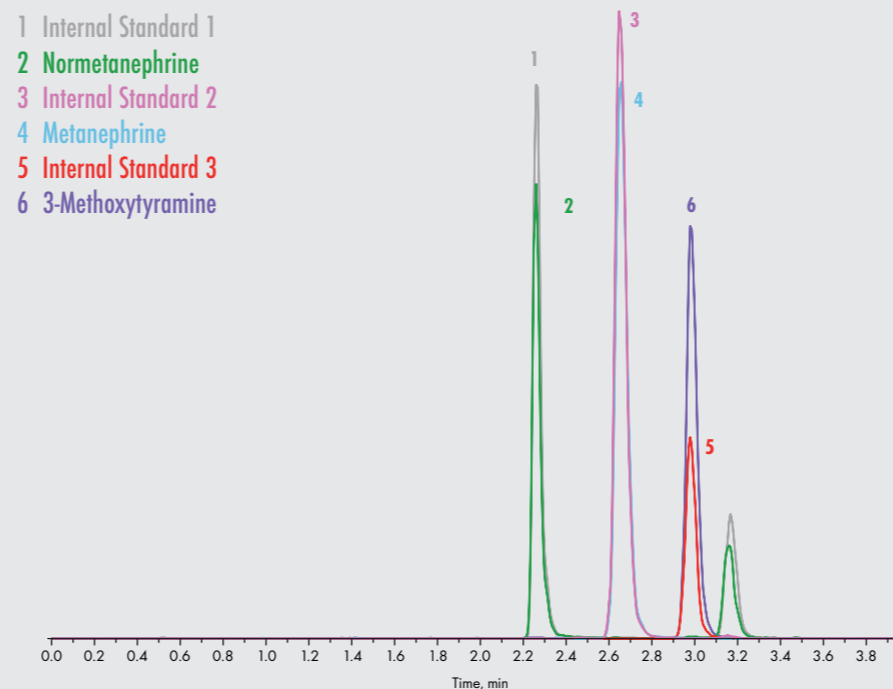
Sample Prep Set No. 80600
Catecholamines, Free Metanephrines, Serotonin



Specifications	Parameters
Limit of quantification: down to 1.0 µg/l	Adrenaline
Linearity: up to 5000 µg/l	Noradrenaline
Recovery: 92-108 %	Dopamine
Intraassay: CV = 1.7-6.6 %	Free Metanephrine
Interassay: CV = 3.3-10.7 %	Free Normetanephrine
Injection volume: ≤ 10 µl	Free 3-Methoxytyramine
Analysis time: 4 min	Serotonin



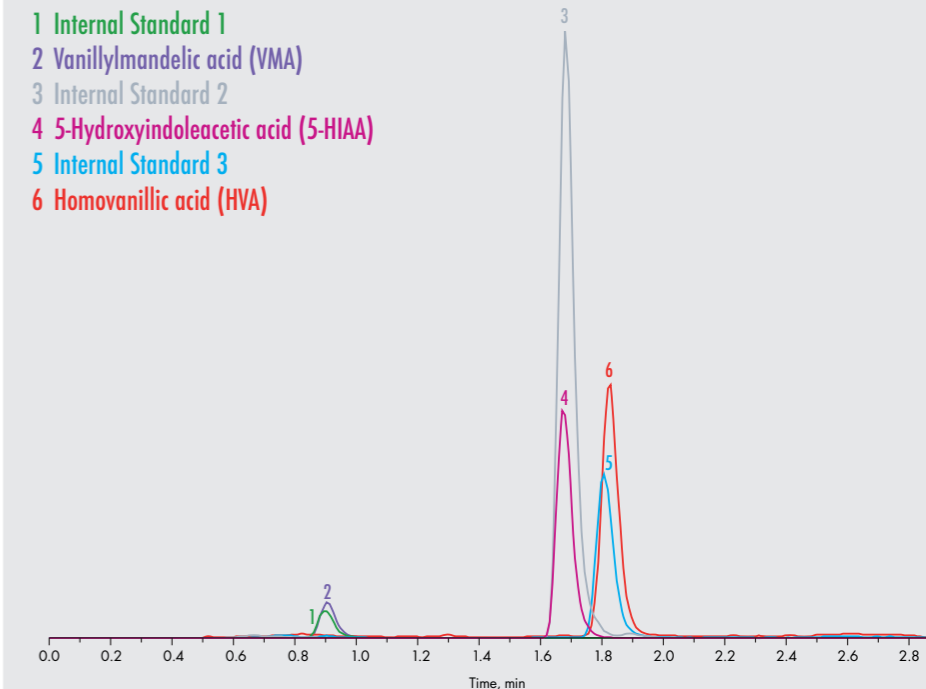
Sample Prep Set No. 80700
Total Metanephrines (free + conjugated)



Specifications	Parameters
Limit of quantification: down to 4.0 µg/l	Metanephrine
Linearity: up to 20000 µg/l	Normetanephrine
Recovery: 92-107 %	3-Methoxytyramine
Intraassay: CV = 2.8-8.6 %	
Interassay: CV = 2.3-7.8 %	
Injection volume: ≤ 20 µl	
Analysis time: 4 min	



Sample Prep Set No. 80800
VMA, HVA, 5-HIAA



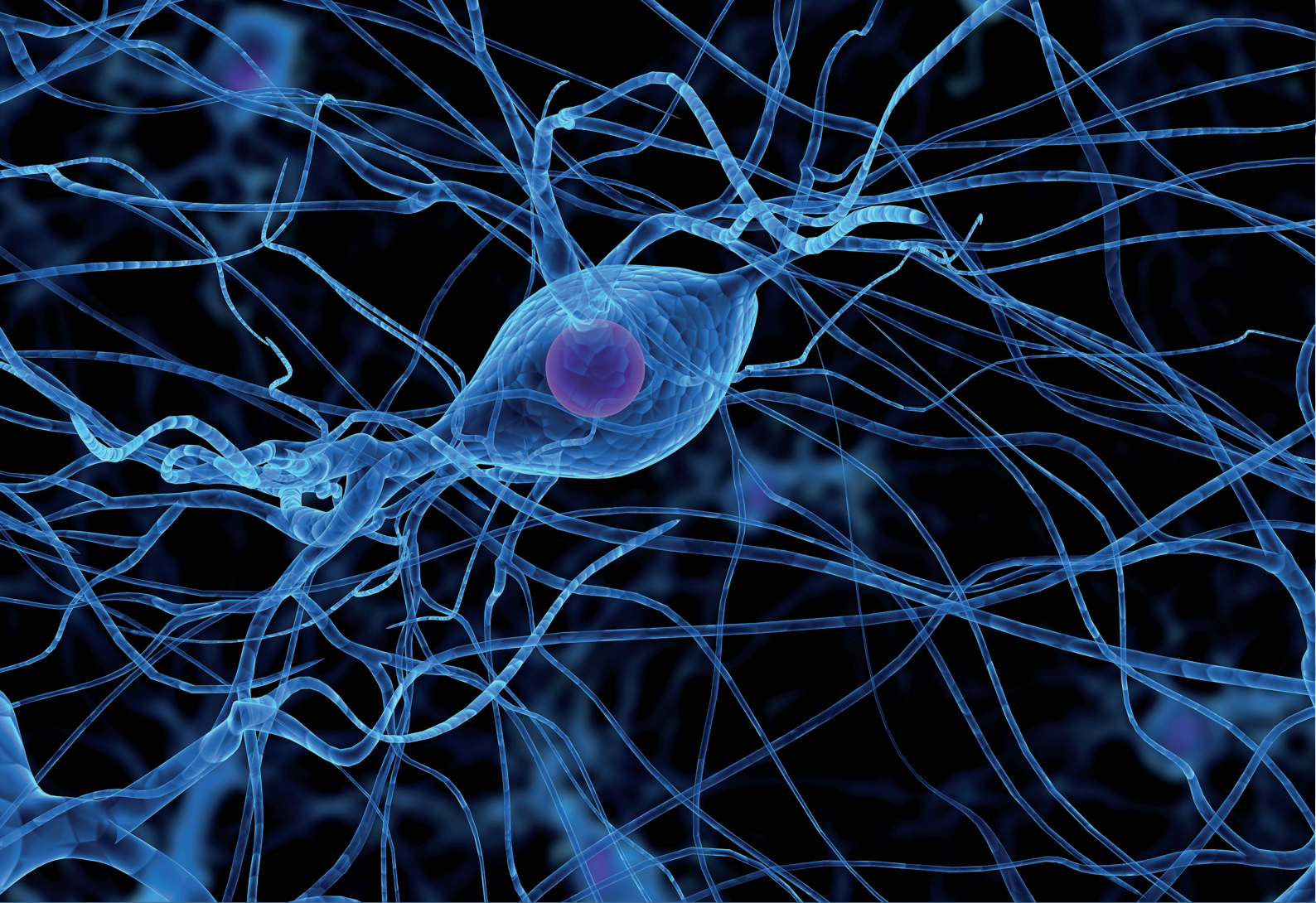
Specifications	Parameters
Limit of quantification: down to 1.0 mg/l	Vanillylmandelic acid (VMA)
Linearity: up to 250 mg/l	Homovanillic acid (HVA)
Recovery: 95-113 %	5-Hydroxyindoleacetic acid (5-HIAA)
Intraassay: CV = 2.5-6.7 %	
Interassay: CV = 3.7-7.7 %	
Injection volume: ≤ 2 µl	
Analysis time: 3 min	

Each Sample Prep Set includes all required components, such as internal standards, buffers for neutralisation, washing, elution and dilution.

For each Sample Prep Set the following accessories are available:

- 6PLUS1® Multilevel Calibrator Set
- **MassCheck**® controls
- Tuning Mix for instrument setup
- System Check Solution for system performance monitoring on a daily basis

Fully automated workflows also available



For detailed ordering information of the kit configurations and components, please contact your local sales representative or get in touch with us at mailbox@chromsystems.com