

VMA, HVA and 5-HIAA are important parameters for the diagnosis of neuroblastoma and carcinoid tumors. In addition to the ClinRep® Complete Kit with manual sample preparation (order no. 3000, see pages 34 - 35) RECIPE offers two ClinRep® Complete Kits for automated sample preparation with robotic systems from Gilson® and HTA. Kits for 100 and 500 assays are available for each system.

## Biogenic Amines

# VMA, HVA and 5-HIAA in Urine

– with Gilson® ASPEC™ XL

– with HTA, Model HT400E

### Test Data

Test data are available on request

### HPLC Parameters

Identical with order no. 3000, see pages 34 - 35

### Sample Preparation\*

Automated sample preparation  
with Gilson® ASPEC™ XL

Addition of IS:

50 µl urine	1 ml Internal Standard IS
-------------	---------------------------

Extraction:

Apply 1 ml sample on the sample preparation column
--

1. wash with 1 ml Ammonia Solution A    2. wash with 2.5 ml Boric Acid B

Elution:

Apply 2 ml Eluting Reagent E
------------------------------

HPLC Analysis:

Inject 20 µl
--------------

\* The indicated sample/reagent volumes are exemplified for the ASPEC™ XL. The corresponding data for the HT400E are available on request.

## Ordering Information

Order No.	Description	Quantity
3100	ClinRep® Complete Kit for VMA, HVA, 5-HIAA in Urine with Gilson® ASPEC™ XL for 100 assays	1 pce.
<b>Kit components (order no. 3100):</b>		
3010	Mobile Phase	1000 ml
3011	Standard Solution, lyophil.	5 x 1 ml
3012	Internal Standard IS	100 ml
3013	Urine Calibrator, lyophil.	5 x 5 ml
3120	Sample Preparation Columns	2 x 3120 (2 x 50 pcs.)
3021	Ammonia Solution A	100 ml
3022	Boric Acid Solution B	2 x 3022 (2 x 300 ml)
3023	Eluting Reagent E	2 x 3023 (2 x 100 ml)
	Manual	1 pce.
	Quick Reference	1 pce.
3200	ClinRep® Complete Kit for VMA, HVA, 5-HIAA in Urine with Gilson® ASPEC™ XL for 500 assays	1 pce.
<b>Kit components (order no. 3200):</b>		
	5-fold amount of kit components with order no. 3100 (3010, 3011, ..., 3023)	5 x 3100
3300	ClinRep® Complete Kit for VMA, HVA, 5-HIAA in Urine with HTA, Model HT400E for 100 assays	1 pce.
<b>Kit components (order no. 3300):</b>		
3010	Mobile Phase	1000 ml
3011	Standard Solution, lyophil.	5 x 1 ml
3012	Internal Standard IS	100 ml
3013	Urine Calibrator, lyophil.	5 x 5 ml
3320	Sample Preparation Columns	2 x 3320 (2 x 50 pcs.)
3021	Ammonia Solution A	100 ml
3022	Boric Acid Solution B	2 x 3022 (2 x 300 ml)
3023	Eluting Reagent E	2 x 3023 (2 x 100 ml)
FK6401	Sample vials, clear glass, 4ml	2 x FK6401 (2 x 100 pcs.)
FK6402	Sample vial without cap, PP, 1.5 ml	100 pcs.
	Manual	1 pce.
	Quick Reference	1 pce.
3400	ClinRep® Complete Kit for VMA, HVA, 5-HIAA in Urine with HTA, Model HT400E for 500 assays	1 pce.
<b>Kit components (order no. 3400):</b>		
	5-fold amount of kit components with order no. 3300 (3010, 3011, ..., FK6402)	5 x 3300
<b>Start Accessories:</b>		
3030	Analytical Column with test chromatogram	1 pce.
<b>ClinChek® Controls:</b>		
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

→ Automated sample preparation

→ Test kits available for 100 or 500 assays

→ Injection interval: 15 min