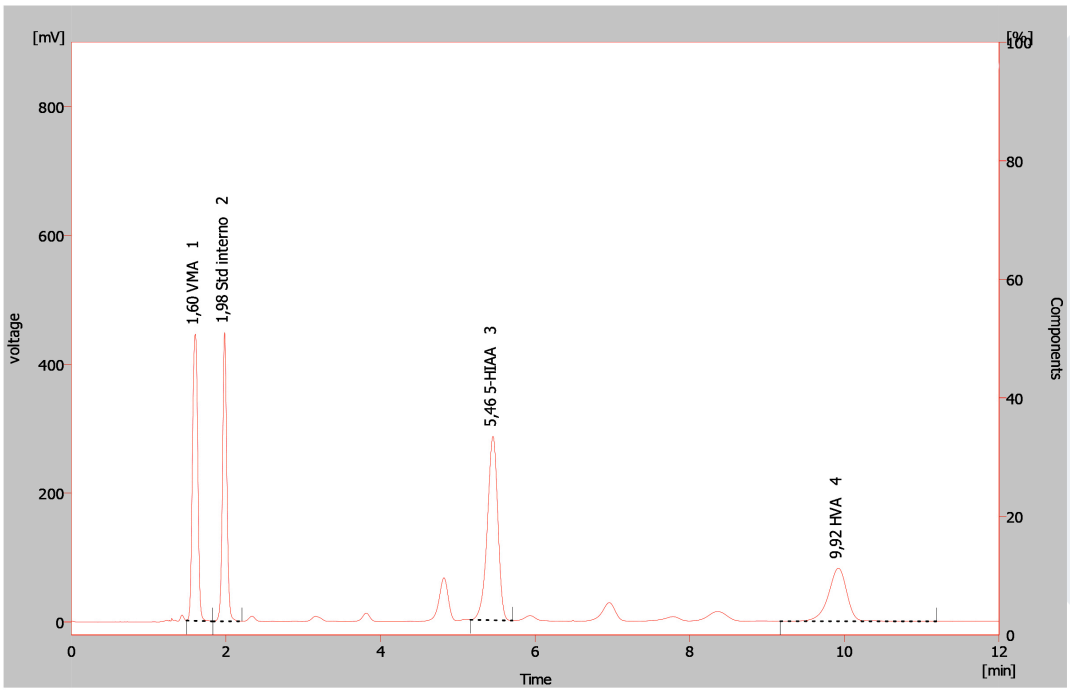
BSN Biological Sales Network

METHOD AT A GLANCE

FLOCHROM® VMA, 5-HIAA AND HVA IN URINE

Concentration of VMA in urine is an important indicator in diagnosis and control of patients affected by pheochromocytoma.
5-HIAA is an important tumor marker of carcinoid syndrome. HVA is important in the study of neuroblastoma and in other neuroendocrine rare diseases.



HPLC system conditions

Injection volume: 20 µL (variable according to instrumental sensitivity)
Flow rate: 1.5 mL/min
Running time: 14 min
Column heater: 37°C
Fluorescence detector: 285 nm excitation, 315 nm emission
Column conditioning: column should be conditioned for 10 min at a flow rate of 1.0 mL/min with mobile phase

PROVIDE PERSONAL SOLUTIONS

B.S.N. S.r.l. | Biological Sales Network
Tel. +39.0374.351005
Via Coelli, 18 26012 Castelleone (CR)

contact@bsn-srl.it
bsn-srl.it

METHOD AT A GLANCE

Sample preparation

- Pipette 1.0 mL of urine
- Add 100 µL of Internal Standard, wash well the tip and vortex
- Add 200 µL of Reagent 1
- Add a measuring cup of Reagent 2. Shake the vial until dissolution
- Add 4 mL of Reagent 3 and vortex the vial for at least 1 min. If phases separation is not clear, centrifuge for 3 min at 2000 rpm
- Collect and transfer 3 mL from upper organic phase into centrifuge tube
- Add 500 µL of Reagent 4 and vortex well for at least 1 min
- Remove carefully the upper organic phase and add 500 µL of Reagent 5
- Shake well and transfer 200 µL in a HPLC vial, collecting from the bottom of the vial and analyze with HPLC technique

Performance

ANALYTE	LINEARITY (µg /mL)	LLOD (µg /mL)	LLOQ (µg /mL)	CV% INTRA	CV% INTER
VMA	0.20 – 50	0.06	0.20	0.12 – 1.05	4.64 – 6.47
5-HIAA	0.80 – 100	0.24	0.80	0.27 – 0.68	3.24 – 7.21
HVA	1.05 – 100	0.32	1.05	1.51 – 1.66	7.05 – 7.96

Ordering guide

EUH03100	FloChrom® VMA. 5-HIAA and HVA in Urine	100 assays
EUH03090	Analytical Column	1 pc
EUH03070	Precolumns	5 pcs

CHR-16-19-REV.1

PROVIDE PERSONAL SOLUTIONS

B.S.N. S.r.l. | Biological Sales Network
Tel. +39.0374.351005
Via Coelli, 18 26012 Castelleone (CR)

contact@bsn-srl.it
bsn-srl.it