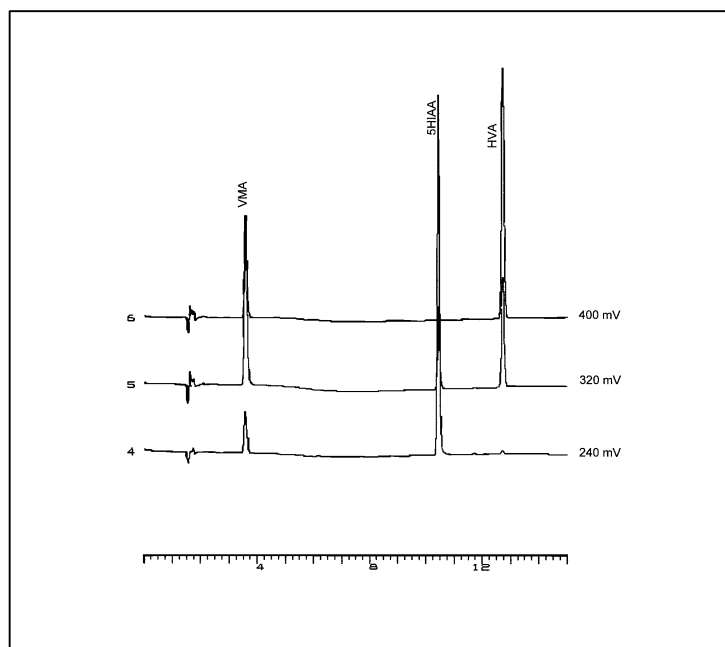


Simultaneous Determination of Urinary VMA, 5HIAA and HVA Without Extraction



Three channel chromatogram of a standard (20 mg/L of VMA, 5HIAA and HVA was diluted 20-fold).

Samples are simply diluted and filtered before separation by binary gradient reverse phase chromatography. The basis of this method is the use of two dimensions of resolution : chromatographic and voltammetric. By using eight serial coulometric sensors, set at incrementally increasing potentials, an additional stage of selectivity is obtained. This provides screening of lower oxidizing interferences and highly specific stepwise oxidation of each analyte.

Chromatographic conditions :

Column : NBS 5 μ , C18, 150 x 4.6 mm

Mobile Phase :

A (50.5 mM Monobasic sodium phosphate /methanol, 99/1).

B (100 mM Monobasic sodium phosphate /methanol, 1/1).

Flow Rate : 1.0 ml/min.

Temperature : 35°C.

Injection Volume : 10 μ L.