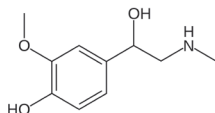


DETERMINATION OF PLASMA FREE METANEPHRINES AND NORMETANEPHRINES

Agilent 6460 Triple Quadrupole LC/MS delivers a 6-minute high-throughput method per sample

Metanephrine



Normetanephrine

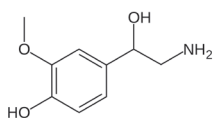


Figure 1: Target compounds

Background

The analysis of metanephrine and normetanephrine in a clinical research environment requires a quick and simple analytical method for rapid sample turnaround. LC/MS is ideal in this role due to its fast analysis time and high throughput capabilities.

The Approach

Agilent's 1200 Infinity LC and 6460 Triple Quadrupole LC/MS system enabled with Agilent Jet Stream technology delivers excellent sensitivity, selectivity and speed for plasma free metanephrine and normetanephrine analysis. This performance enhancement is leveraged by Agilent's industry proven reliability and robustness for utmost productivity and cost effectiveness.

The industry leading MassHunter software enables a simple workflow for the routine and precise quantitation of plasma free metanephrine and normetanephrine. Linearity of calibration curves as well as accuracy of quality control and sample data can be quickly verified using the Batch at a Glance feature. Processed data can be viewed in a variety of user-defined customizable report formats or exported to a laboratory informatics system (LIMS) in .xml or .csv format.



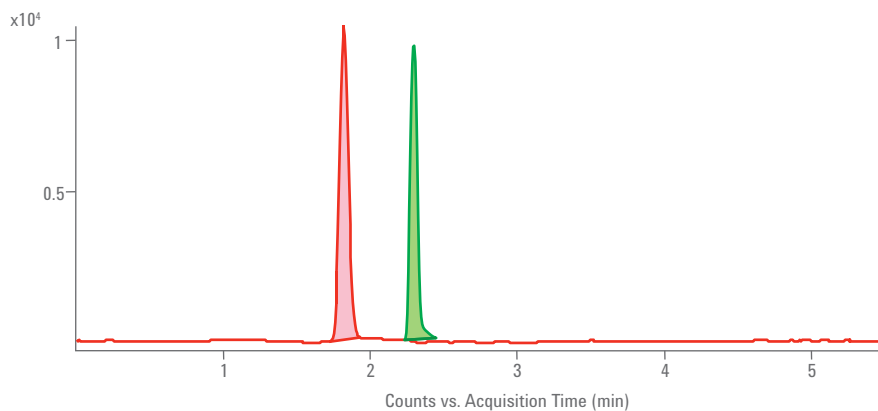


Figure 2: Metanephrine and normetanephrine (0.2 and 0.22nM respectively) demonstrating rapid and sensitive analysis in six minutes

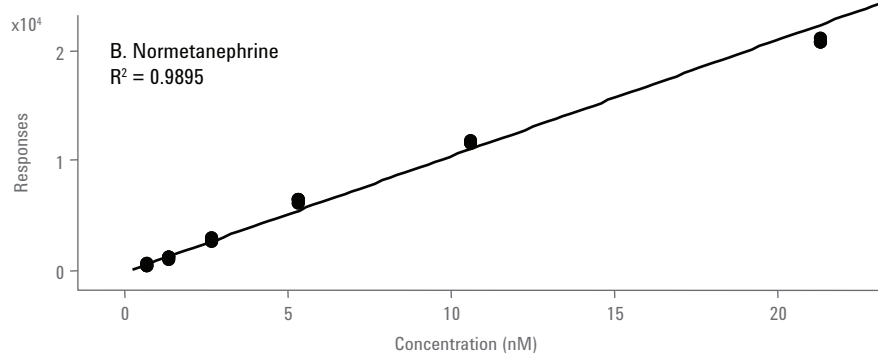
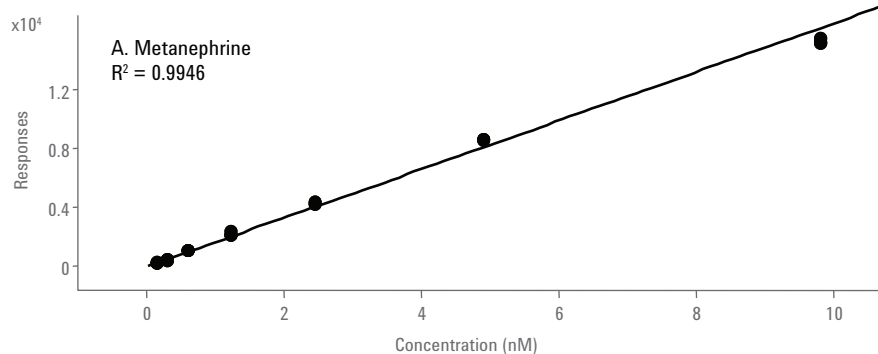


Figure 3: Excellent linearity and sensitivity allows the accurate quantitation of metanephrine and normetanephrine

Key Benefits

- LC/MS delivers a selective, cost effective and less time-consuming method
- The Agilent 6460 Triple Quad LC/MS with Jet Stream technology delivers a 6-minute high-throughput method for the analysis of metanephrine, normetanephrine, and their deuterated internal standards
- The LC/MS method enables two MRM transitions providing confident compound identification and provides sensitive and accurate quantitation down to 0.2nM
- MassHunter Quantitative Analysis Software delivers fast results and interpretation through advanced software tools

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