

## 6-hydroxymelatonin sulfate (aMT6)

<b>Method:</b>	Liquid Chromatography-Tandem Mass Spectrometry (LC/MS/MS)
<b>Description:</b>	6-hydroxymelatonin sulfate (aMT6) in human urine was extracted by Solid Phase Extraction (SPE), separated by High Performance Liquid Chromatography (HPLC), and analyzed by Mass Spectrometry (MS) in Electrospray Ionization (ESI) source at negative ionization mode for aMT6. Multiple Reaction Monitoring (MRM) of transition of 326.9/161.0 for aMT6 was used for the quantification of aMT6. Deuterated stable isotopes aMT6-d4 was utilized as internal standards at MRM of 330.97/162.9 for the calibration of aMT6 for the quantification analysis.

### Collection and Performance Characteristics

<b>Tube type:</b>	Preferred: Urine
<b>Minimum Volume:</b>	0.5 mL
<b>Special Processing Considerations</b>	
<b>Limit of Quantization</b>	0.1ng/mL
<b>Dynamic range:</b>	0.1 – 200ng/mL
<b>Precision:</b>	Intra-assay variation is 1.8 – 8.1% Inter-assay variation is 3.4 – 9.8%
<b>Reference Range:</b>	Unknown