

**DEPARTMENT OF MEDICINAL CHEMISTRY  
MASS SPECTROMETRY CENTER - INSTRUMENTATION**

**Waters Micromass Platform LCZ - Quadrupole Mass Spectrometer QMS**

Manufacturer: Waters Corp., Milford, MA, USA  
Mass range: 3000 Dalton  
Resolution: Unit mass  
Interface: Micromass Zspray™ Atmospheric Pressure Ionization (API) Source  
Ionization (±eV): Electrospray & Atmospheric Pressure chemical Ionization (ESI & APCI)  
Inlet Systems:

Liquid Chromatograph (LC):

Waters Alliance 2690 Separations Module  
(Waters Corp., Milford, MA)

Split: Variable

Infusion:

Harvard Apparatus Model 22 Syringe infusion pump  
(Harvard Apparatus, Inc., South Natick, MA)

Loop/Flow Injection Analysis (FIA)

LC solvent delivery (10 - 1000µl min.<sup>-1</sup>) with sample injection

Sampling System:

Auto injector (Integral to Waters Alliance 2690)

Rheodyne 8125 or 7125 Manual Injectors  
(Rheodyne Inc., Cotati, CA)

Data System (DS):

Hardware: Compaq Family 6 Model 7, x86, 384 Mbyte RAM

Software: Microsoft Windows NT 4.0, MassLynx® 3.4, MaxEnt® &  
BioLynx®

Acquisition Date: 2004

Funding:

LC-MS/DS: Amgen Inc.- Gift (July, 2004)  
Mass Spectrometry Center Equipment Budget

Predominant Uses:

Fully automated quantitative analysis of drugs and metabolites.