



SALDI graph showing a high 324 (quinine) intensity reading.

Rosemary Nguyen
Sophomore
Biochemistry
Dr. Karen Molek

Surface-assisted laser desorption/ionization mass spectrometry (SALDI-MS) is a technique used to calculate the mass of small molecules. In this research, SALDI is used to calculate quinine in tonic water. Quinine was used to help treat malaria; a disease caused by infected mosquitos. Since quinine has a small mass of 324g/mol, SALDI is a great, soft technique to detect high intensities and concentrations, without destroying the molecule.