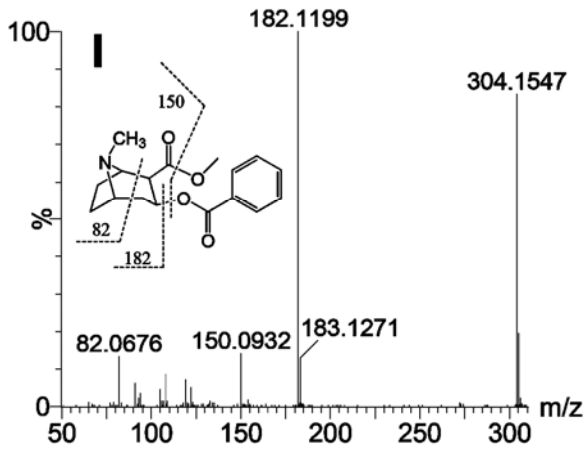
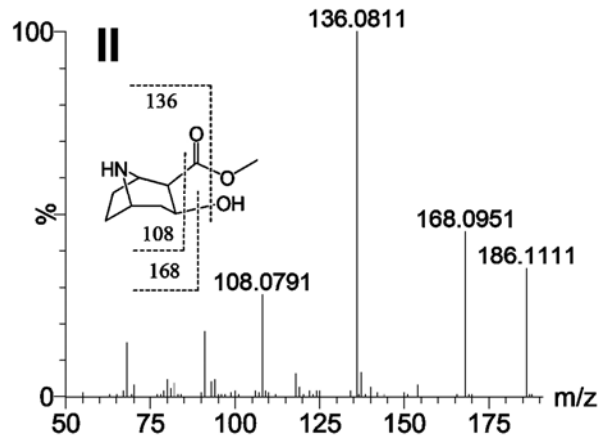
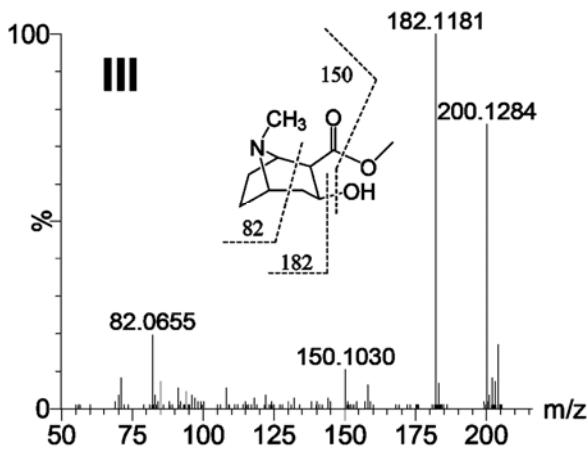
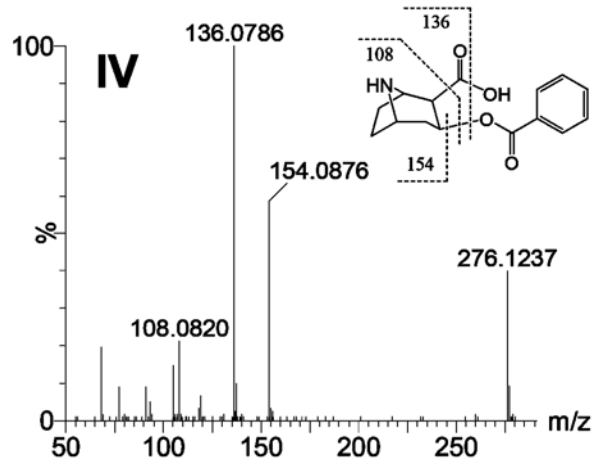
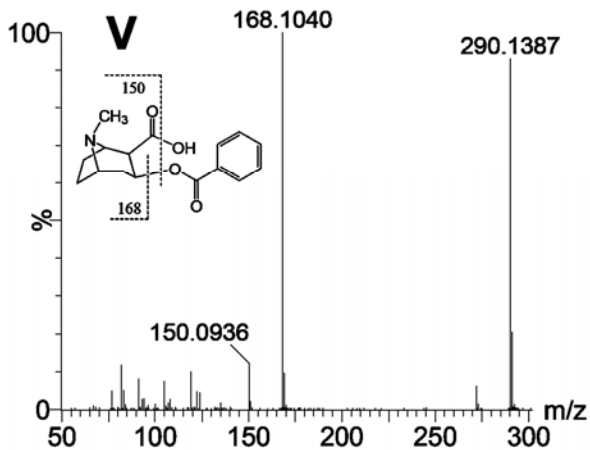
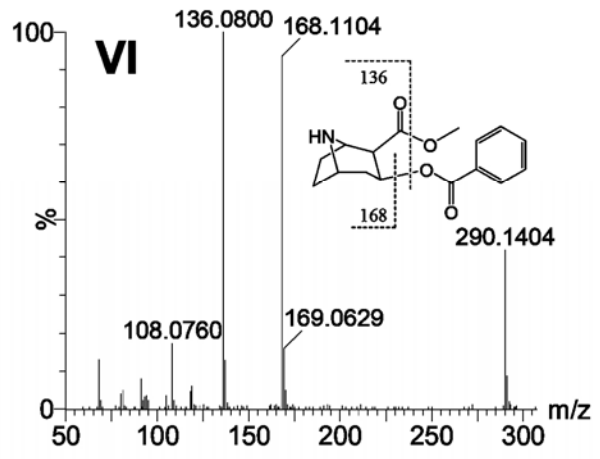


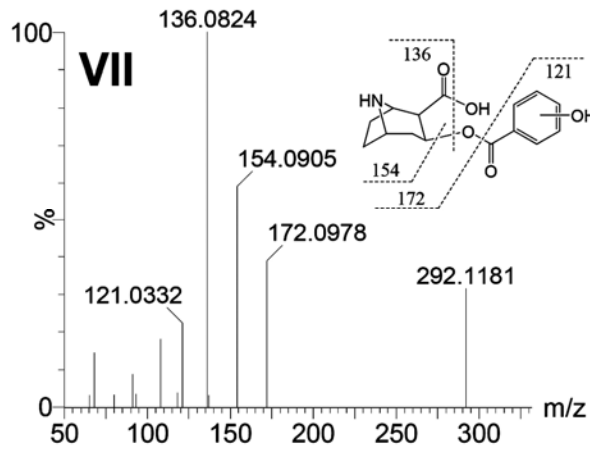
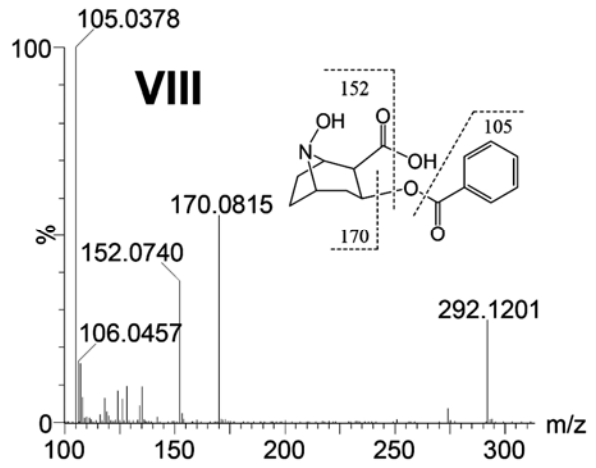
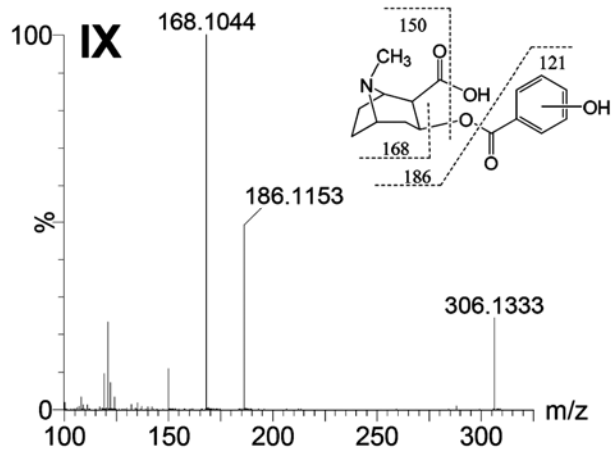
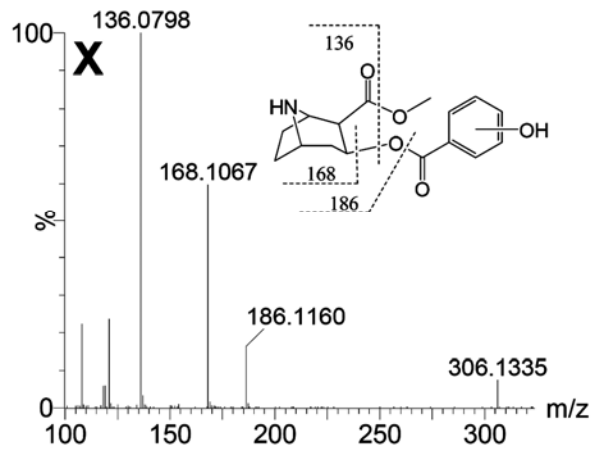
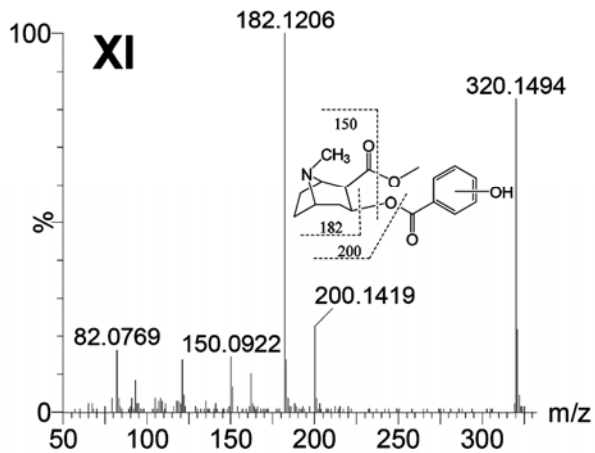
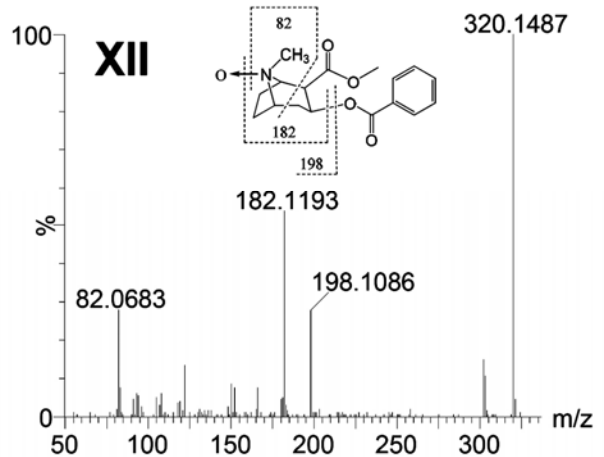
Characterization of Differential Cocaine Metabolism in Mouse and Rat through Metabolomics-guided Metabolite Profiling

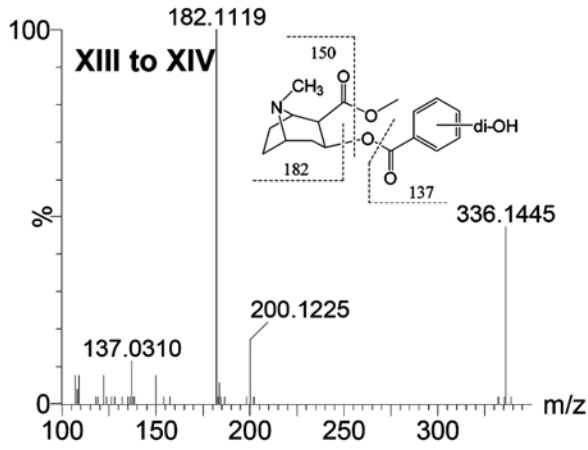
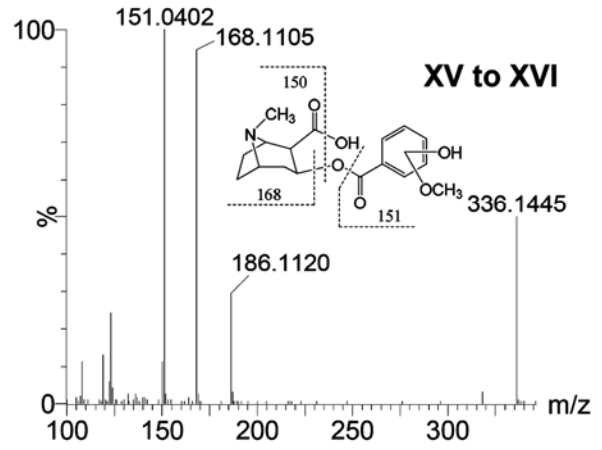
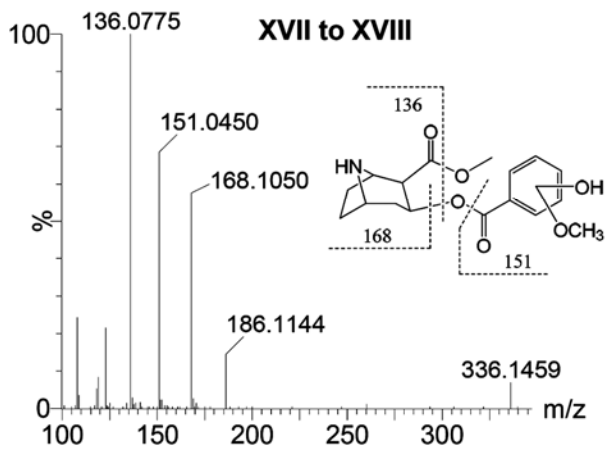
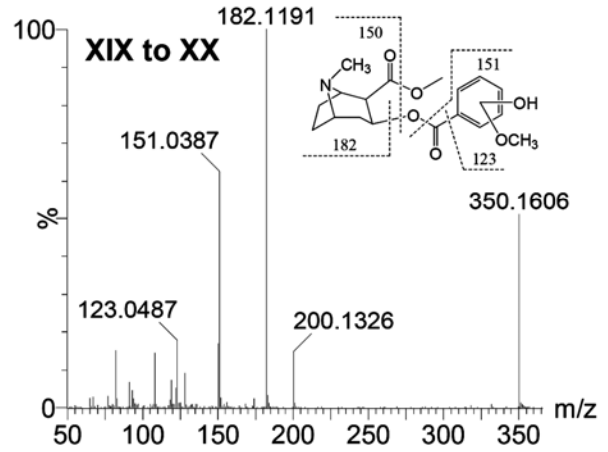
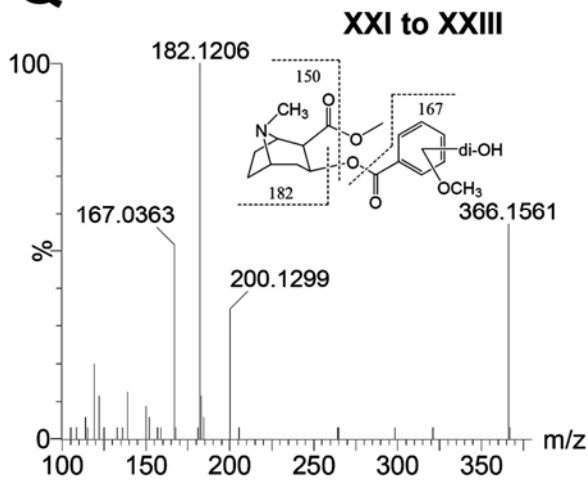
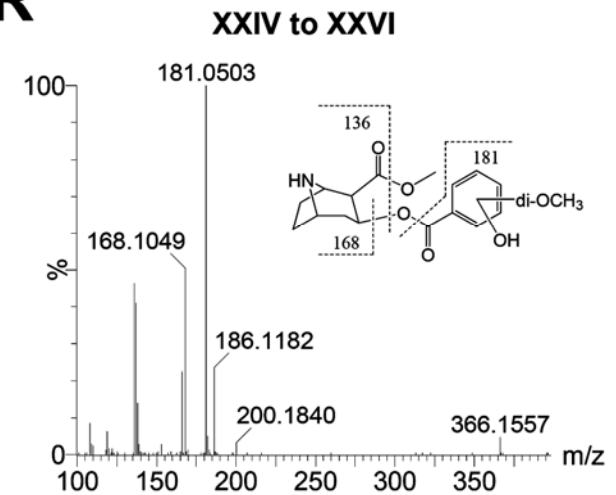
Dan Yao, Xiaolei Shi, Lei Wang, Blake A. Gosnell, Chi Chen

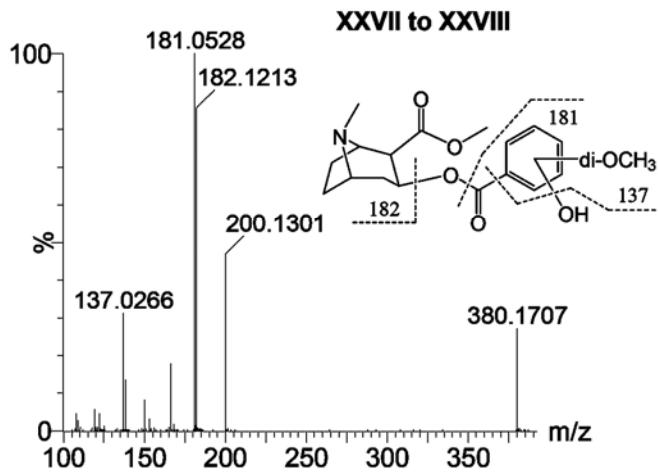
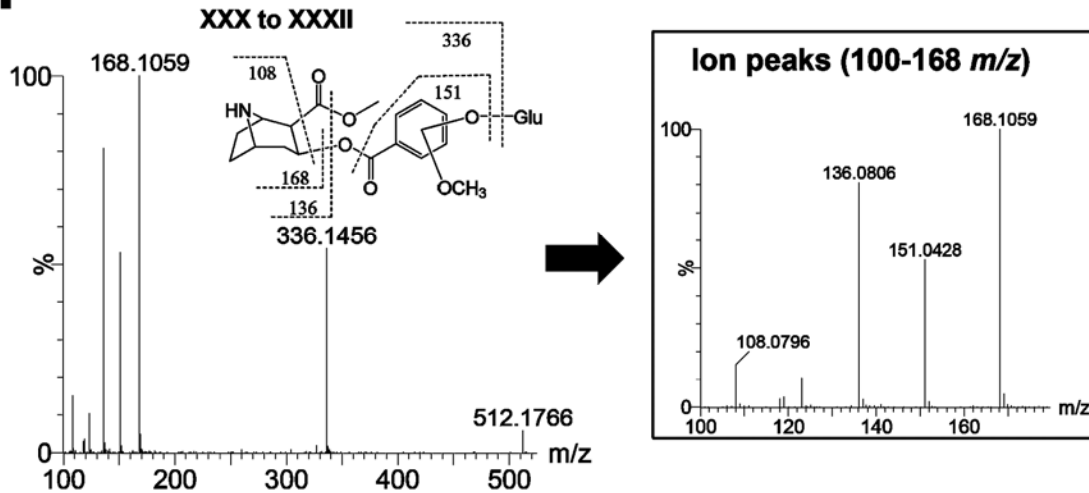
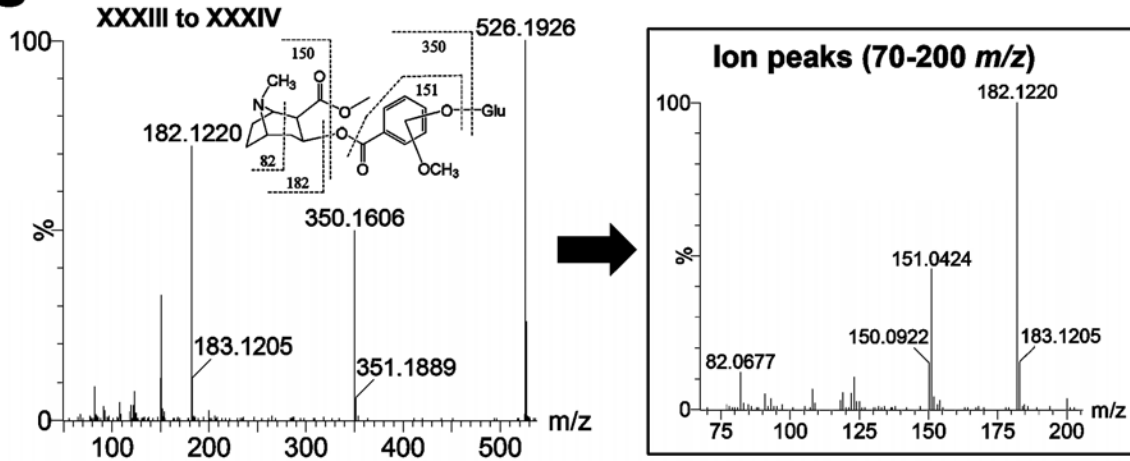
Department of Food Science and Nutrition, University of Minnesota, St. Paul, MN 55108

Supplemental Fig. 1. Tandem MS (MS/MS) spectra and structural elucidation of cocaine and cocaine metabolites. **A.** Cocaine (**I**). **B.** Norecgonine methyl ester (**II**). **C.** Ecgonine methyl ester (**III**). **D.** Benzoylnorecgonine (**IV**). **E.** Benzoylecgonine (**V**). **F.** Norcocaine (**VI**). **G.** Hydroxybenzoylnorecgonine (**VII**). **H.** *N*-hydroxybenzoylnorecgonine (**VIII**). **I.** Hydroxybenzoylecgonine (**IX**). **J.** Hydroxynorcocaine (**X**). **K.** Hydroxycocaine (**XI**). **L.** Cocaine-*N*-oxide (**XII**). **M.** Dihydroxycocaine (**XIII-XIV**). **N.** Hydroxymethoxybenzoylecgonine (**XV-XVI**). **O.** Hydroxymethoxynorcocaine (**XVII-XVIII**). **P.** Hydroxymethoxycocaine (**XIX-XX**). **Q.** Dihydroxymethoxycocaine (**XXI-XXIII**). **R.** Hydroxydimethoxynorcocaine (**XXIV-XXVI**). **S.** Hydroxydimethoxycocaine (**XXVII-XXVIII**). **T.** Hydroxymethoxynorcocaine glucuronide (**XXX-XXXII**). **U.** Hydroxymethoxycocaine glucuronide (**XXXIII-XXXIV**). **V.** Dihydroxymethoxycocaine glucuronide (**XXXV-XXXVIII**). **W.** Hydroxydimethoxynorcocaine glucuronide (**XXXIX-XXXX**). **X.** *N*-hydroxynorcocaine (NHNC). Major daughter ions from fragmentation were interpreted in the inlaid structural diagrams. The procedures of conducting accurate mass measurement and calculating elemental composition are described in the *Materials and Methods*.

A**B****C****D****E****F**

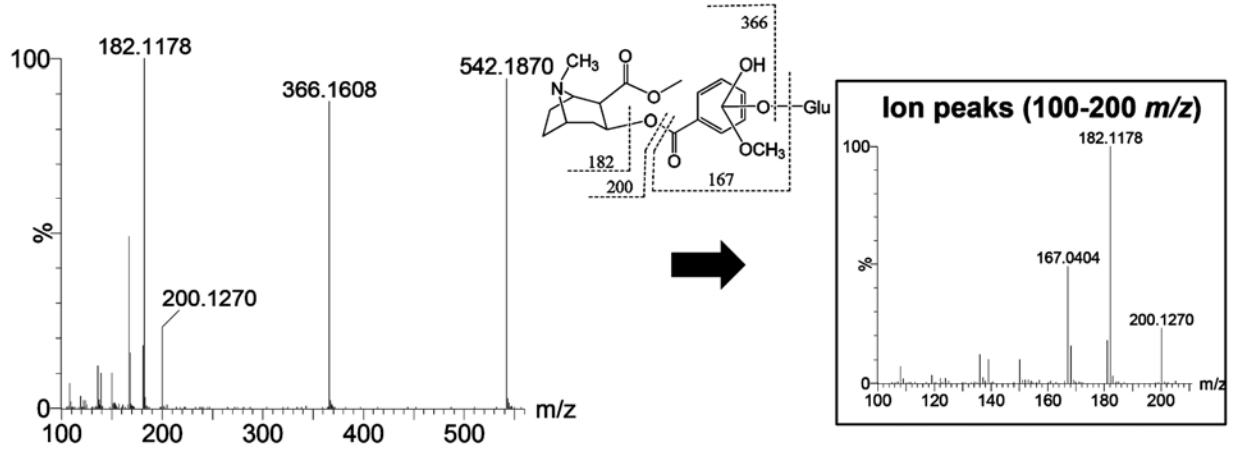
G**H****I****J****K****L**

M**N****O****P****Q****R**

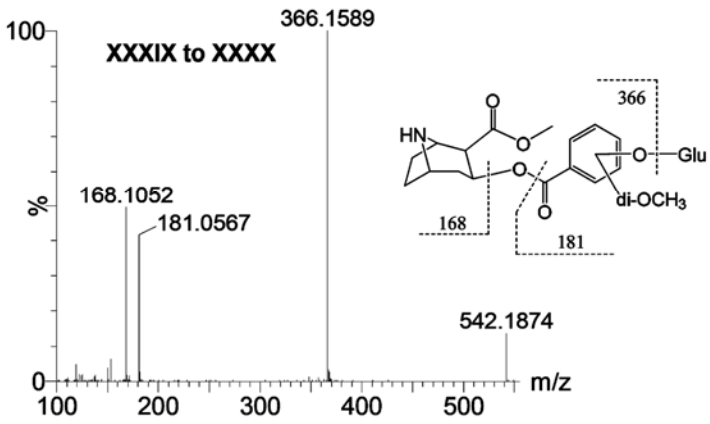
S**T****U**

V

XXXV to XXXVIII

**W**

XXXIX to XXXX

**X**