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In vivo and *in vitro* metabolism of aspirin eugenol ester in dog by liquid chromatography tandem mass spectrometry

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Aspirin Eugenol Ester (AEE) is a promising drug candidate for treatment of inflammation, pain and fever and prevention of cardiovascular diseases with fewer side effects than its precursor, aspirin. Investigation on its metabolic process in target animal species will help to illustrate its action mechanism and to establish its residual mark compound to formulate its dosage. Six beagle dogs were orally given a dose of 20 mg.kg-1 of AEE and one dog was used to prepare blank liver microsomes. Their liver microsomes were prepared for *in vitro* study and their plasma and urine were collected for *in vivo* metabolic analysis using liquid chromatography tandem mass spectrometry (HPLC-MS/MS). In this study we identified 10 metabolites, M1, M2, M3, M4, M5 in phase I and M6, M7, M8, M9, M10 in phase II.

Biography

Jianyong Li, Professor has completed his PhD at the age of 34 years from the Graduate School of Chinese Academy of Science (CAS) and Postdoctoral studies from the Graduate School of Chinese Academy of Agricultural Science (CAAS). He is leader of research and development program for veterinary chemical pharmaceutical at Agricultural Science and Technology Innovative Program of CAAS. He has published more than 190 scientific papers, of which English language papers were more than twenty.

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