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[\[PDF \(828K\)\]](#) [\[References\]](#)**Tissue-specific Distribution of Genistein, Daidzein and Bisphenol A in Male Sprague-Dawley Rats after Intra-gastric Administration**[Shin YASUDA](#)¹⁾, [Po-Sheng WU](#)¹⁾, [Masaaki OKABE](#)¹⁾, [Hirofumi TACHIBANA](#)¹⁾ and [Koji YAMADA](#)¹⁾

1) *Laboratory of Food Chemistry, Division of Applied Biological Chemistry, Department of Bioscience and Biotechnology, Faculty of Agriculture, Kyushu University*

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A mixture of genistein, daidzein and bisphenol A was intragastrically given to male Sprague-Dawley rats. The tissue distribution of these compounds and equol, a metabolite of daidzein, was examined by high-performance liquid chromatography after administration. In the serum, liver and kidney, genistein, daidzein and bisphenol A were clearly detected at 6 to 24h. Equol was detected at 0h and levels subsequently dropped and then increased again, reaching the initial level at 24h. In the mesenteric lymph node (MLN), thymus and spleen, genistein and daidzein were detected at 6 to 24h. Bisphenol A and equol in the MLN was detectable at 6 to 24h and 24h, respectively. In the testicle, epididymis, spermatheca and prostate, higher levels of genistein and daidzein were detected around 6h. Bisphenol A was detected in the epididymis at 6 to 12h. These results suggest that the distribution of these chemicals and their tissue affinities in rats vary from tissue to tissue.

Keywords: [genistein](#), [daidzein](#), [bisphenol A](#), [equol](#)[\[PDF \(828K\)\]](#) [\[References\]](#)Download Meta of Article [\[Help\]](#)[RIS](#)[BibTeX](#)

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