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**JCB-17-10 Rev. Highlighted**

**Determination of isoquercitrin in rat plasma by high performance liquid chromatography coupled with a novel synergistic cloud point extraction**

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*Highlights*

- A fast and efficient synergistic cloud point extraction was established.
- This method was accomplished in room temperature in 1 min.
- Developed method was successfully applied for extraction of isoquercitrin in rat plasma..

**Abstract**

A novel improved preconcentration method known as synergistic cloud point extraction was established for isoquercitrin preconcentration and determination in rat plasma prior to its determination by high performance liquid chromatography. Synergistic cloud point extraction greatly simplified isoquercitrin extraction and detection. This method was accomplished at room temperature (about 22°C) in 1 min with the nonionic surfactant Tergitol TMN-6 as the extractant,

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