

### Extraction of Genistein from *Sophora flavescens* using a Supercritical Fluid

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In the field including a medicine, food processing, refinement, extraction, and etc, the supercritical fluid technology comes into the spotlight as the new environment-friendly technology replacing the existing process. The purpose of this study was to find an optimum extraction condition of genistein from *sophora flavescens* with supercritical carbon dioxide as a solvent. In this effort, effects of the extraction conditions including pressure, temperature and presence of absence of a co-solvent on the extraction efficiency were investigated. From the results, it was observed that increase of higher pressure led to the higher extraction efficiency. Further, methanol was found to be the best co-solvent among the entrainers tested.