

Hydrothermal reaction of ginseng extract to increase specific ginsenosides

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Ingredients of ginseng are ginsenosides, and they have many bioactivities. In general, deglycosylated or dehydrated ginsenosides are more bioactive than intact ginsenosides therefore there have been many tries to increase specific ginsenosides, which are in processed ginseng but not in unprocessed ginseng. Steaming treatments, fermenting processes, and additional acids treatments are usually carried out to increase specific ginsenosides. However, these processes tend to be time-consuming and complicated. To overcome these disadvantages hydrothermal reaction of ginseng extract was carried out. As changing temperatures and reaction time, an optimal condition was found. As a result, the specific ginsenosides were successfully increased by hydrothermal reactions in a short reaction time.