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Studies on analytical method development of silymarin for the Health Functional Food Code revision in Korea

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The Ministry Food and Drug Safety (MFDS or we) are amending its test methods for health functional food (dietary food supplement) to establish regulatory standards and specifications in Korea. In this regard, we continue to carry out research on analytical method development for the items. Silymarin, extracted from the milk thistle plant, has been used widely and is composed mainly of silychristin, silydianin, silybin A, silybin B, isosilybin A and isosilybin B. In this study, we have developed a sensitive and selective test method for them by liquid chromatographic-tandem mass spectrometry (LC-MS/MS). It provided high resolution of the individual silymarin constituents on BEH C18 column using a gradient mobile phase system comprised of ammonium acetate and methanol/water/formic acid and the assay was fully validated as well. Our research can provide a scientific evidence to amend the silymarin test method for Health Functional Food Code in Korea.

Biography

She completed her post-graduation in university of Korea. And now she is currently working in Ministry of food and drug safety

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