



International Journal of PharmTech Research

CODEN (USA): IJPRIF, ISSN: 0974-4304 Vol.9, No.4, pp 340-343, 2016

Chemical Hydrolysis of Soybean (*Glycinemax* (L) Merrill) to GetGenistein Compound

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Abstract: Soybean (*Glycinemax* (L) Merrill) is one of the highestisoflavones source. Isoflavones are one type of phytoestrogen that have a chemical structure similar to estradiol, that's why it can be used not only to inhibite but also to prevent many symptoms related deficiency of estrogen. However in the small intestine, isoflavones like genistin will be hydrolyzed by β -glucosidase and produce aglycone like genistein, this process can be optimized by hydrolysis with enzyme or chemical. The aim of this study was to obtain the extract of soybean that hydrolysed by hydrochloric acid and to obtain scientific data about the content of genistein in the extract by High Performance Liquid Chromatography (HPLC). From the results, show that average of genistein levels contained in the extract of soybean hydrolyzed for three replicationis 0.580%. **Keywords** :Soybean, phytoestrogen, isoflavones, genistein, HPLC.

Muammar Fawwaz et al /International Journal of PharmTech Research, 2016,9(4),pp 340-343.
