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MICROBIAL DETOXIFICATION OF GADUNG (Dioscorea hispida Dennst) CHIPS: EFFECT OF MICROBES LOADING AND TIME

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Abstract

Gadung (Dioscorea hispida Dennst.) is an underused tuber grown in various parts of Southeast Asia and its neighbouring islands. The countryside people in this area use this carbohydrate rich tuber as staple food after boiling, steaming or frying, while some others make it into flour, cakes, pancakes and porridge (Ashri et al., 2014). The resistant starch of this tuber allows a sluggish digestion and results in a slow glucose release and absorption in human gastrointestinal tract that drives its potential use in lowering the risk of obesity, diabetes and related diseases (Aprianita et al., 2009). Being gluten free, this tuber offers great capacity to reduce the prevalence of celiac disease and some allergic reactions (Rekha & Padmaja, 2002).

Author Keywords

Food processing, Cyanogenic glycosides, Aspergillus niger

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