

Title:	A process for the enhancement of betanin extraction from red beet root by application of gamma-irradiation
Abstract :	The present invention particularly relates to enhancement of betanin extraction from red beetroot by application of gamma-irradiation in the range 2.5 kGy to 10.0 kGy. Gamma-irradiation pretreatment, changes or alters the interior tissue structure, thereby increasing the permeability of plant cells which results in improved mass transfer during solid liquid extraction. The application of gamma irradiation is a unique way of enhancement extraction of betanin from red beetroot. The efficiency of extraction was achieved at ambient temperature of extraction solution. The process for the extraction of betanin from red beetroot using gamma irradiation comprised of the steps such as gamma irradiation, slicing, washing, preparation of extraction solution, immersion of beetroot slices into extraction solution.