

FORTIFIKASI I ODIUM DALAM GULA KELAPA DAN KESTABILAN'NYA DALAM PROD UK PANGAN

Title	FORTIFIKASI I ODIUM DALAM GULA KELAPA DAN KESTABILAN'NYA DALAM PROD UK PANGAN
Author Order	of
Accreditation	
Abstract	<p>Iodine fortification of brown sugar is an effort to improve variation of iodized foods in preventing iodine deficiency disorders in Indonesia. This research aimed to: a) study the effect of fortification time (iodine addition) in iodized brown sugar processing on iodine retention in product; b) determine the source of iodine that is suitable for iodine fortification of brown sugar; c) study the packaging type that can retain iodine stability of iodized brown sugar during storage; d) study the effect of iodized brown sugar usage in making of "kecap" (soy sauce) and "bumbu pecel" on product acceptance according to sensory perception; e) study the effect of shelflife on iodine stability of iodized "kecap" and "bumbu pecel". Results of this research showed that: a) fortification (iodine) addition at 115 °C cooking temperature produced iodized brown sugar with iodine-content higher than at cooking temperature of 110 °C; b) stability of KI is better than KIO₃; c) polypropylene combined with silica gel or aluminum foil can be used as packaging material to retain iodine-content during storage; d) the use of iodized brown sugar in "kecap" and "bumbu pecel" accepted by consumers sensorially; e) iodine stability in "bumbu pecel" is better than in "kecap". During three weeks storage, the decrease of iodine content of "bumbu pecel" iodized with KI is 36.46 percents, and that iodized with KIO₃ is 11.14 percents. Furthermore, for "kecap", the iodine-content decrease are 68.89 and 50.23 percents, respectively in "kecap" iodized with KI and KIO₃.</p>
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