

### **E03 Development and sensory evaluation of *kuih talam pandan* using isomaltulose**

***Huam ZE, Chia PH, Tan SS, Sangeetha S and Chong MHZ***

*Department of Nutrition & Dietetics, International Medical University (IMU), Kuala Lumpur, Malaysia*

The objective of this study was to determine the sensory attributes and overall acceptability of *kuih talam pandan* made with isomaltulose (IM). A total of 37 Malaysian adults aged 18 to 50 years old were recruited from Kuala Lumpur. The *kuih talam pandan* recipe was developed with three variations which are 100% sucrose, 100% IM and 50% sucrose: 50% IM. The three variations of the *kuih talam pandan* were provided to the participants at the same time to conduct the sensory evaluation. In affective test, sensory attributes and overall acceptability were evaluated using a 5-point hedonic scale while sweetness was assessed using Just-About-Right scale. Duo-trio test was carried out to identify the variation close to the reference (100% sucrose). *Kuih talam pandan* with 100% sucrose, 100% IM and 50% sucrose: 50% IM were successfully developed in this study. Under affective test, appearance ( $p=0.714$ ), aroma ( $p=0.232$ ), taste ( $p=0.286$ ), texture ( $p=0.607$ ) and overall acceptability ( $p=0.319$ ) and sweetness ( $p=0.907$ ) had no significant difference. Appearance ( $3.86\pm 1.00$ ), aroma ( $3.70\pm 1.08$ ), taste ( $3.57\pm 1.24$ ), texture ( $3.49\pm 1.17$ ), overall acceptability ( $3.57\pm 1.32$ ) of 100% sucrose obtained highest score among three variations of *kuih talam pandan*. Sweetness ( $2.81\pm 1.00$ ) of 100% sucrose was the nearest to just about right (score=3). In duo-trio test, 23 participants (62%) chose 50% sucrose:50% IM while 14 (38%) chose 100% IM as the similar sample to reference. In conclusion, present study suggested the incorporation of IM to substitute sucrose is impossible in *kuih talam pandan*. Among the three variations of *kuih*, 100% sucrose was the most acceptable by the subjects with highest score obtained in overall acceptability.