

# BLACK G® : STANDARDISED PRODUCT RICH IN METHOXYFLAVONE, NATURAL INGREDIENT

A collaboration R&D between MARDI and Black G Sdn Bhd



## Rich in 5,7-dimethoxyflavone

BLACK GINGER, *Kaempferia parviflora*

### R&D INOVATION PRODUCTS



### NOVELTY OF INNOVATION

BLACK GINGER, *Kaempferia parviflora*

- Black ginger-based products rich in methoxyflavones.
- The process focuses on the standardized content of bioactive ingredient in the final product.
- 5,7-dimethoxyflavone; acting as the chemical marker.
- One of the very few products in the market with significantly high polymethoxy flavonoids.
- Products shown no toxic effect when high doses were administered in-vivo.
- Product is stable as polymethoxy flavonoids.
- R&D product with certification from National Pharmaceutical Regulatory Agency (NPRA).
- Significant increase in physical fitness and showed exhibits aphrodisiac properties that improve the sexual performance.

### AWARDS AND CERTIFICATIONS

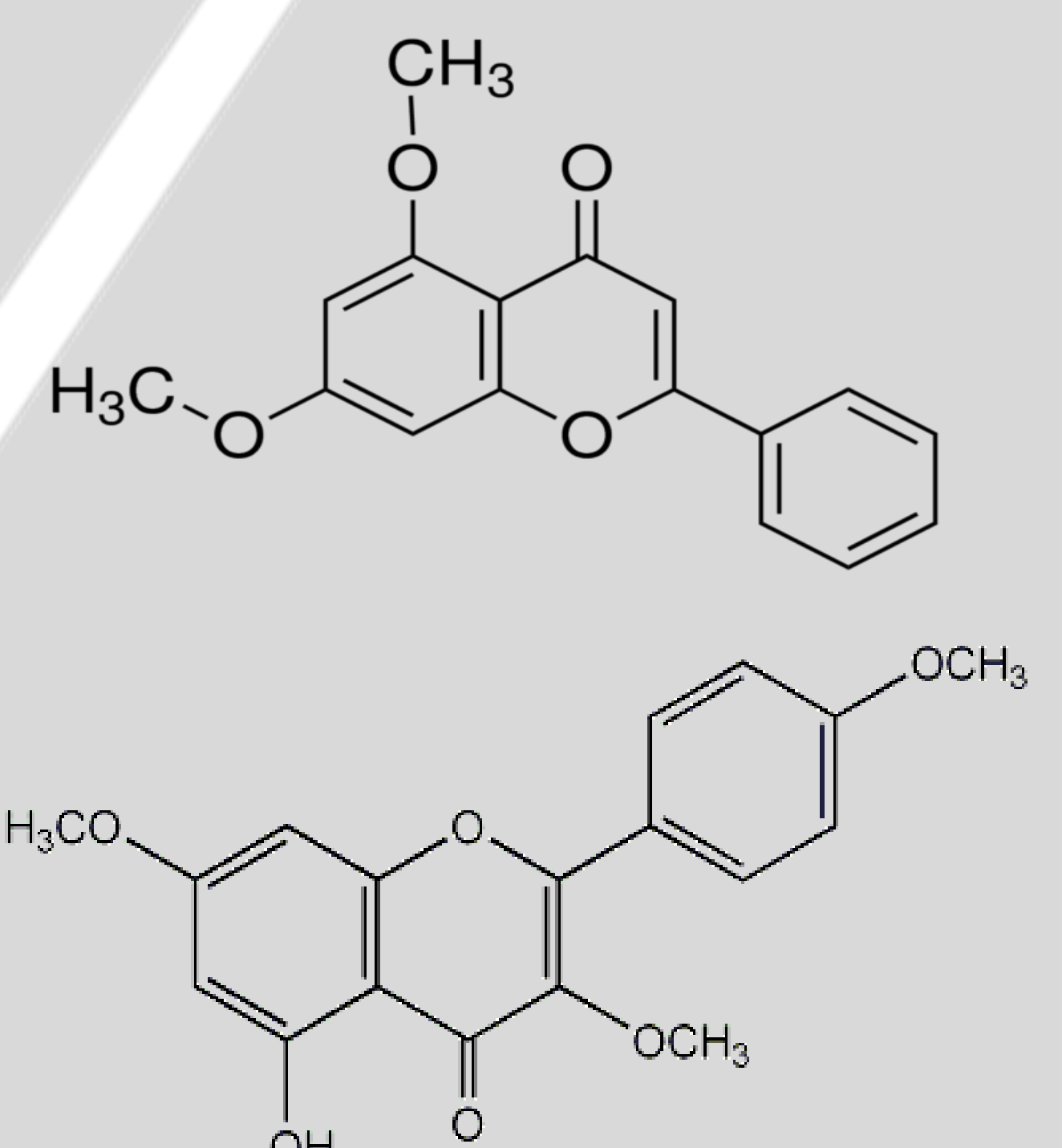
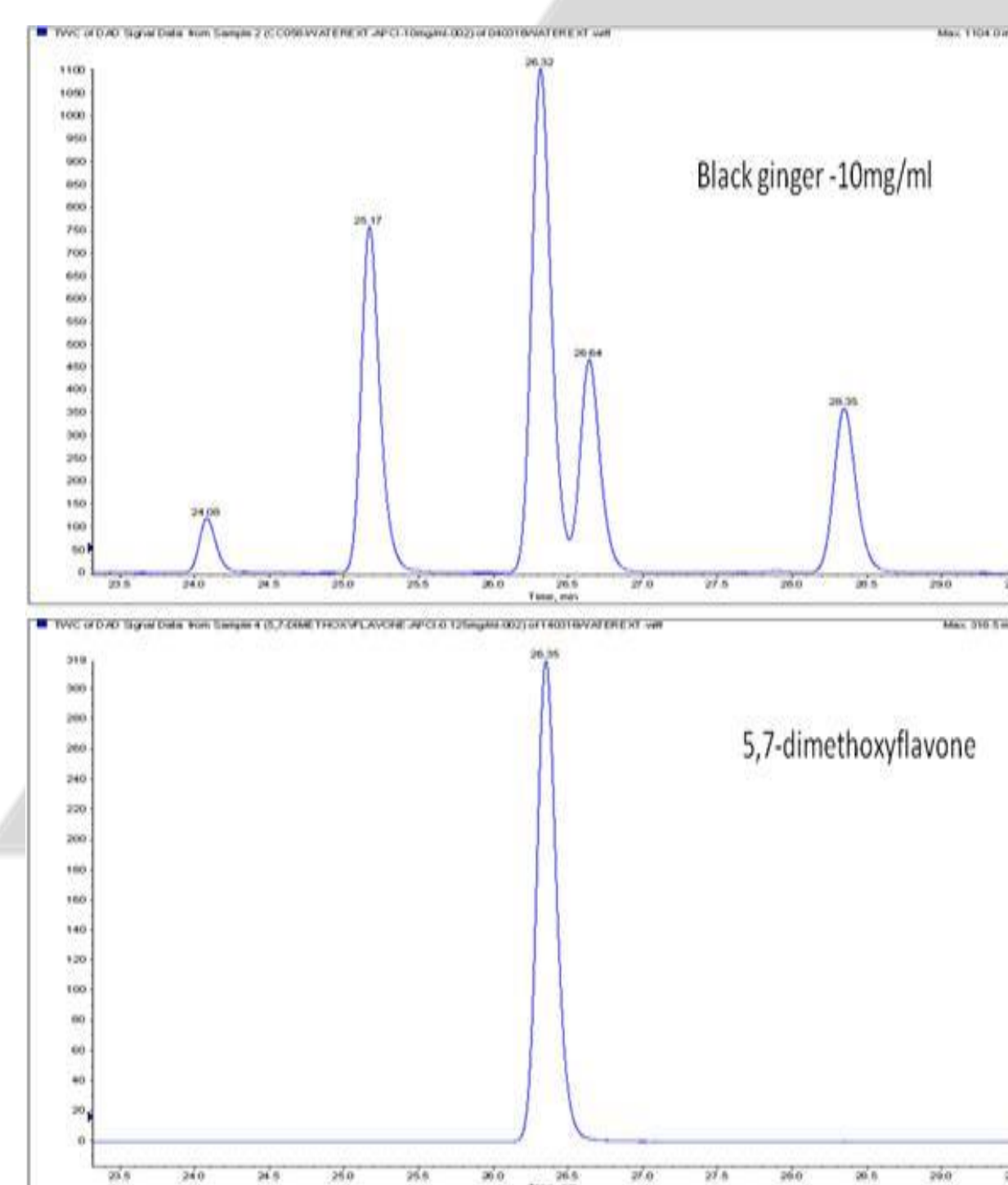
- GOLD Award. Black ginger (*Kaempferia parviflora*)-based products: Rich in natural ingredient of methoxyflavone Mardi Science and Technology Exhibition (MSTE 2017), MAEPS SERDANG, 18-19 September 2017.
- MOST INOVATIVE PRODUCT AWARD. Black ginger (*Kaempferia parviflora*)-based products: Rich in natural ingredient of methoxyflavone Mardi Science and Technology Exhibition (MSTE 2017), MAEPS SERDANG, 18-19 September 2017.
- YOUNG SCIENTIST AWARD. Mardi Science and Technology Exhibition (MSTE 2017), MAEPS SERDANG, 18-19 September 2017.
- MALAYSIA COMMERCIALIZATION YEAR AWARD FINALIST (MCY) 2017. BLACK GINGER BASED PRODUCT. Malaysia commercialization Year) 2017. Pusat Konvensyen Kuala Lumpur (KLCC), pada 12-13 Disember 2017.
- GOLD AWARD. Black G® : Standardised Product Rich in Methoxyflavone Malaysia Technology Expo (MTE 2018). Putra World Trade Centre, Kuala Lumpur. 22 – 24 February 2018.
- SPECIAL AWARD (KIPA) Korea Invention Promotion Association. 29TH International Invention, Innovation & Technology Exhibition (ITEX 2018). Black G® : Standardised Product Rich in Methoxyflavone (KLCC, Kuala Lumpur 10 – 12 Mei 2018).
- SILVER AWARD. SEOUL INTERNATIONAL INVENTION FAIR (SIIF) Black G® : Standardised Product Rich in Methoxyflavone. Peringkat Antarabangsa. Korea. 6 – 9 Dis 2018

### RESEARCH BACKGROUND

- Traditionally used as a health promoting, stimulating and vitalizing agent.
- Contains substantial amounts of PDE5 inhibitors, which act like Viagra.
- Enhances sex performance, stimulates stamina and reduces fatigue.
- Major flavone compounds including 5,7- dimethoxyflavone.
- Research in MARDI showed that black ginger extract contains
- a significant amount of Bioflavonoids, in particular the methoxyflavones,
- Methoxyflavones have been reported to have many health benefits.

### Polymethoxy flavonoids: Chromatograms of black ginger obtained from LCMS-MS

BLACK GINGER, *Kaempferia parviflora*



Group of scientists MARDI