



Faculty of Integrative Medicine, Rajamangala University of Technology Thanyaburi
No. 2, Phahonyothin 87, Soi.2, Prachathipat, Thanyaburi, Pathum Thani 12130



Innovative Natural Products From Thai Wisdom Research And Development Unit
Faculty of Integrative Medicine, Rajamangala University of Technology Thanyaburi
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Research Interest

Natural product bioactivity evaluation
Cell and molecular biology
Herbal Drug Development and Formulation



Innovative Effervescent Herbal Tea from High-Active Compounds Herbal Formula for Longevity Extract for Health Nourishment

Innovative effervescent herbal tea featuring a high-phenolic Thai herbal formula for longevity extract, serving as a potent health nourishment ingredient. Our extract is prepared using a green extraction process, ensuring maximum potency and consistent quality. This herbal extract offers multiple health benefits: antioxidant activity to protect cells and slow aging, alpha-glucosidase inhibition to reduce diabetes risk, and vasodilation to support healthy blood pressure. Each effervescent tablet contains a controlled amount of extract, aligned with traditional Thai medicinal recommendations, ensuring consistent benefits.

SCIENTIFIC RESEARCH

Extraction Process

High-phenolic extracts

Total phenolic content

Yield of extracts

Antioxidant activity

- Ferric reduction antioxidant power (FRAP): the high-phenolic extract (Extract A) possesses potent reducing power.

- DPPH radical scavenging: the high-phenolic extract (Extract A) acts as a potent antioxidant by scavenging free radicals.

Anti-aging property

- Lifespan improvement: The high-phenolic extract can increase the median lifespan of *Caenorhabditis elegans* from 18 to 20 days (11.1% increase)

Anti-diabetic property

- Alpha-glucosidase inhibitory activity: The high-phenolic extract (Extract A) at 2 mg/mL can inhibit the sugar-digesting enzyme comparable to the standard, acarbose.

Anti-hypertensive property

- Vasorelaxation activity: The high-phenolic extract (Extract A) can dilate isolated rat aortas up to 99% relaxation.

Petty patent