

# IP MARKETPLACE

CONNECTING INNOVATION TO YOUR BUSINESS

## TECH OFFER

### METHOD FOR MICROWAVE-ASSISTED EXTRACTION OF BIOACTIVE COMPOUNDS FROM PLANT PART



#### ▶ MORE INFORMATION

##### MEGA-TREND

- Energy and Power
- Chemicals and Materials

##### TECHNOLOGY READINESS LEVEL (TRL)

- TRL 3

##### PATENT/ GRANTED NUMBER

- PI 2015702553

#### ▶ TECHNOLOGY OVERVIEW

The present invention relates to a method for microwave-assisted extraction of bioactive compounds from plant part, comprising the steps of: immersing the plant part in an extraction solvent at a predetermined solvent to feed ratio to form a sample mixture; and irradiating the sample mixture in a closed microwave system at a predetermined power for a predetermined duration under heating modes selected from constant power mode, multi-steps power mode, intermittent power mode and constant temperature mode, wherein the predetermined power rely on actual absorbed power

and absorbed energy irradiated during diffusion step of the microwave-assisted extraction.

---

## CONTACT US!

Dr. Lee Ching Shya

UMCIE Business Officer

Email: [leecs@um.edu.my](mailto:leecs@um.edu.my)

Phone: +603 – 7967 7351 / 7352