# Energy Drink Formulation from *Phaleria marcocarpa* Extract by using Ohmic Heated Hydro Extraction™ Technology

Sharifah Nazura S.J., Nur Asmanira C.R., Fitriyatul Aiman M.B., Hisyamuddin J., Sharifah Mariam S. H

Section of Food Technology, Universiti Kuala Lumpur -MICET, Melaka, Malaysia
Section of Bioengineering Technology, Universiti Kuala Lumpur -MICET, Melaka, Malaysia

E-mail: sharifahmariam@unikl.edu.my

Leopard

More than Energy …
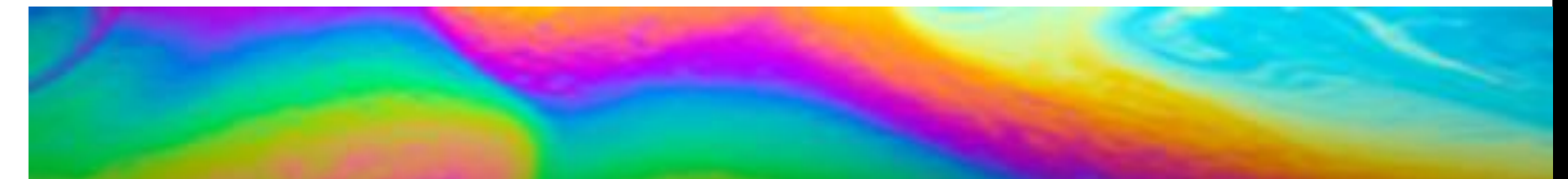
PRODUCT FEATURES / CAPABILITIES

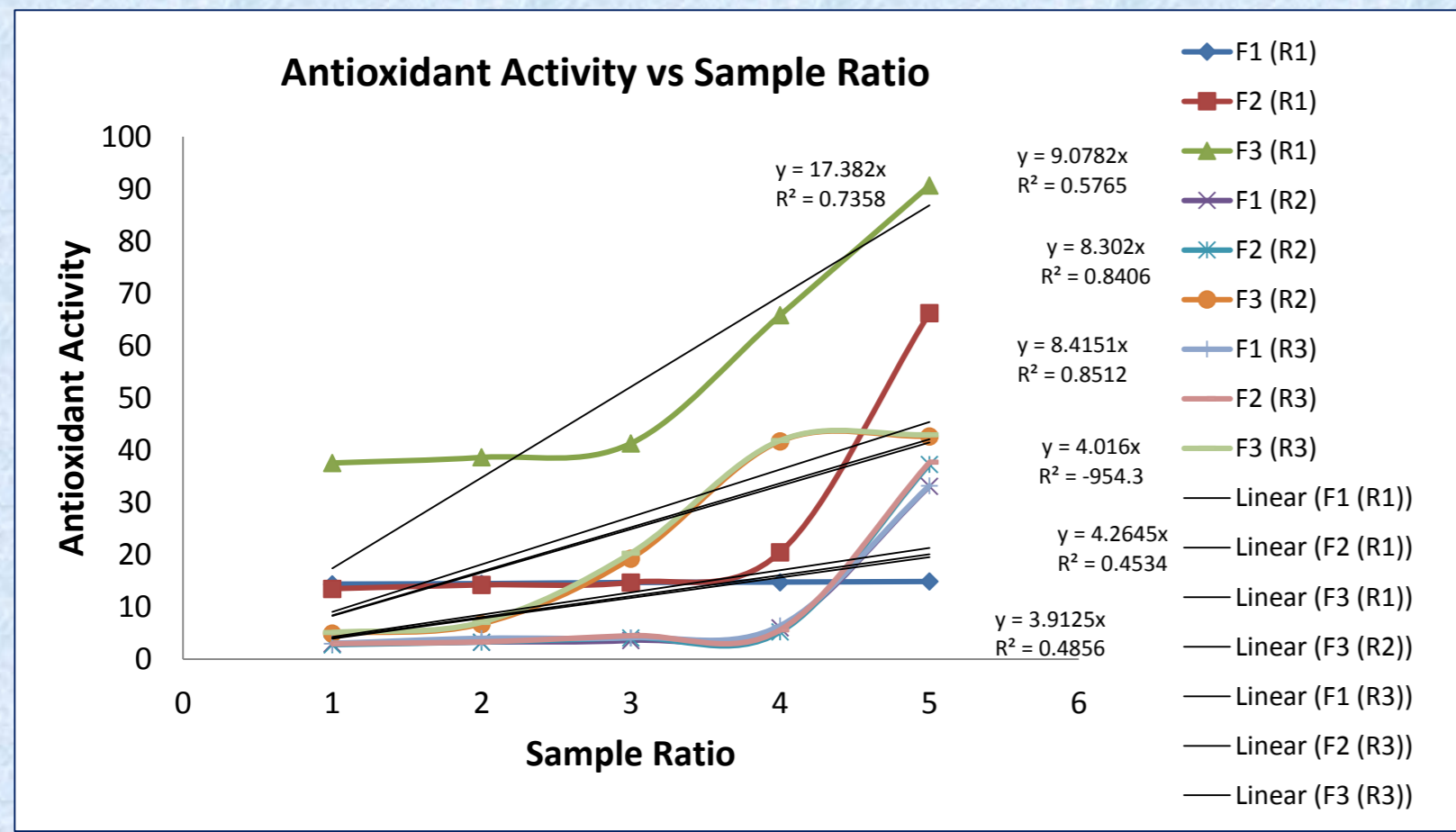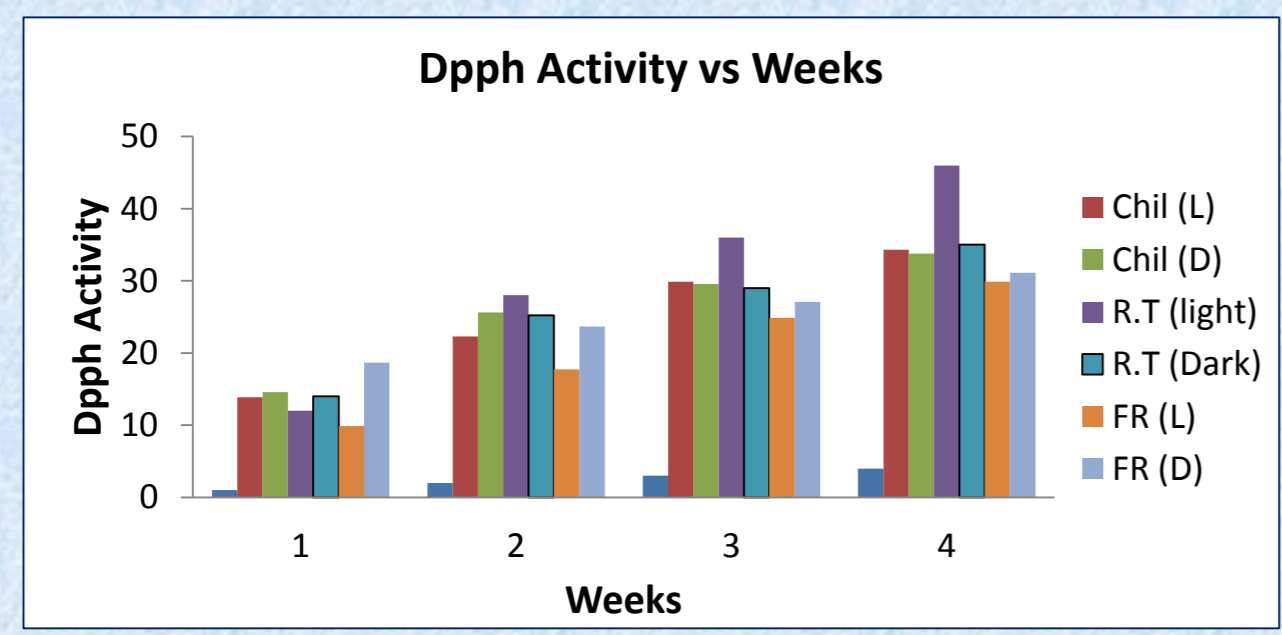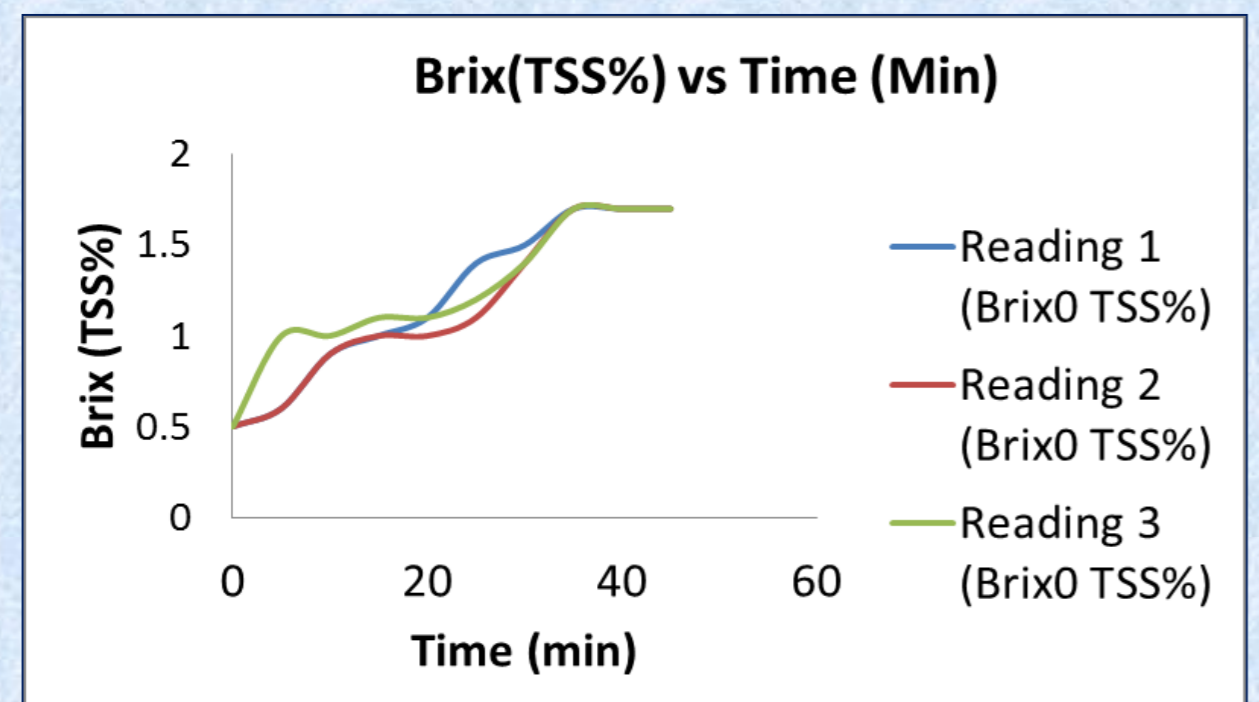Leopard is a healthy drinks that can boost your energy level without caffeine.

NOVELTY

The extraction method was performed by newest technology- Ohmic Heated Hydro Extraction™ technology.
Product development- A new formulation of energy drink.

ADVANTAGES / APPLICATIONS

The current used technology shows excellent performance in terms of:
- Higher brix value compared with others existing method
- Reduce extraction time
- Preserve more active compound
- Better antioxidant result

A new formulation of energy drink have potential to hits the market.

Brix(TSS%) vs Time (Min)
- Reading 1 (Brix0 TSS%)
- Reading 2 (Brix0 TSS%)
- Reading 3 (Brix0 TSS%)

Dpph Activity vs Weeks
- Chil (L)
- Chil (D)
- R.T (light)
- R.T (Dark)
- FR (L)
- FR (D)

Antioxidant Activity vs Sample Ratio
$y = 17.382x$, $R^2 = 0.7358$
$y = 9.0782x$, $R^2 = 0.5765$
$y = 8.302x$, $R^2 = 0.8406$
$y = 8.4151x$, $R^2 = 0.8512$
$y = 4.016x$, $R^2 = -954.3$
$y = 4.2645x$, $R^2 = 0.4534$
$y = 3.9125x$, $R^2 = 0.4856$

APPROACH

Raw Material Preparation

Ohmic Heated Hydro Extraction™ Concentration Process

Sample Analysis and Formulation
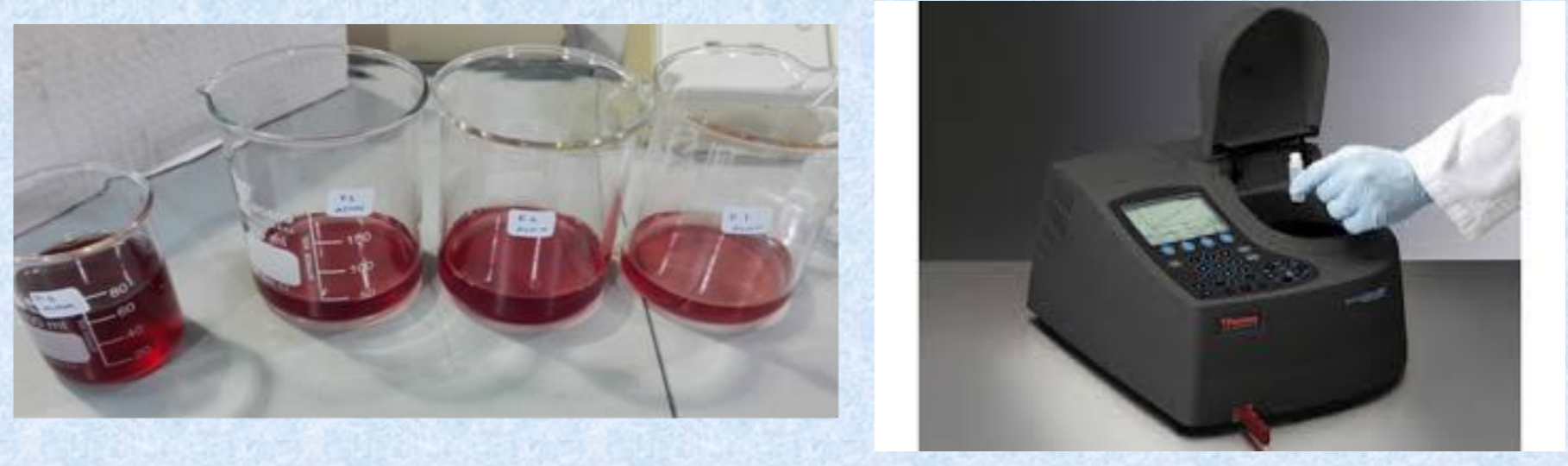
BENEFITS

Ohmic heating- Enhanced the extraction process in terms of time and energy saving as well as preserve more active compound.

Phaleria marcocarpa extract showed high potential as main ingredient in energy drink development.

Potential for strategic collaboration with Am Vision Synergy Sdn Bhd- Development of new Energy Drinks
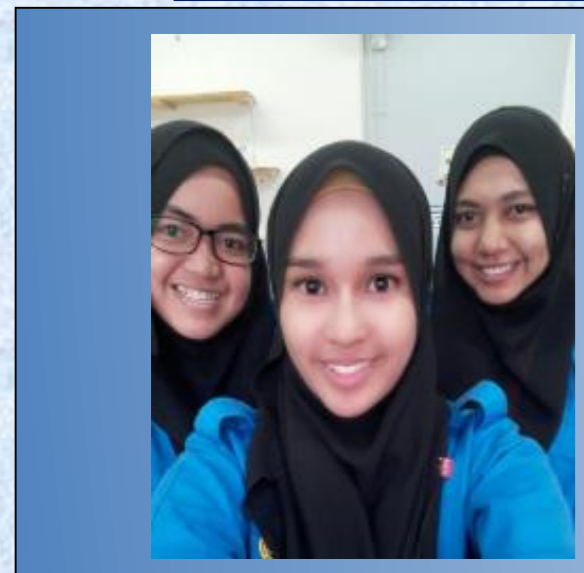
COMPETITION

Current market of energy drink- Red Bull, Livita and others.

NEEDS

An efficient extraction technology will afford an economic product development.

POTENTIAL MARKET

Publics – Especially to those need energy booster (athlete)

NAME: :SHARIFAH NAZURA BT SYED JASNIN, NUR ASMANIRA BT CHE ROHALIM, FITRIYATUL AIMAN BT MOHAMMAD BADRAN
RESEARCH ALLIANCE: ENERGY DRINK OF PHALERIA MARCOCARPA BY USING OHMIC HEATED HYDRO EXTRACTION
TEL (0) : 016-4095605
FAX : -
EMAIL : sharifahnazura9571@gmail.com
WEBSITE:https://www.micet.unikl.edu.my