



# NATURAL COLOURANT

Natural Colourant from Areca Catechu Linn  
for Textile Industry

## DESCRIPTION

Natural Colourant was obtained from Areca Catechu Linn or locally known as 'Buah Pinang' using a green extraction. Usage of non-toxic solvent and high responsive process. It also can yield high colour recovery containing high amount of antioxidant activity preserves in the extract.

## Needs

- Natural Colourant produced from natural products.
- Colour obtained through green and non-hazardous extraction method.
- Contained catechin that are beneficial to human health and have high antioxidant activity.
- Catechin is ranked 2nd in antioxidant activity.

## Application

- a) Quick response and the green extraction method can produce up to 39 percent natural colourant.
- b) It is a plant based dye extracted using green extraction technologies.



## Benefits

- Natural Colourants show signs of better biodegradability.
- It has a unique property whereby it is not just an ordinary textile colourant, but its compounds may also have therapeutic uses (i.e. compounds such as catechin and tannins).
- It is long lasting colour and the extraction technology is environmentally friendly and safe.

## Targeted Market

- Potential for textile industry
- Natural brown colour.
- Toy, cosmetic and food colourant



**PROJECT LEADER** : Assoc. Prof. Dr. Mohd Azizi Bin Che Yunus  
**EMAIL** : r-azizi@utm.my | azizi@cheme.utm.my