



## DNA analytical proof for the identity, fragrance and authenticity of Cambodian Premium Fragrant (Jasmine) Rice

Cambodia obtained the DNA fingerprints of three of its Premium Jasmine Rice varieties, namely Pkha Rumduol, Pkha Romeat and Pkha Rumdeng.

Based on 18 distinct markers for alleles expressing fragrance of Jasmine rice it was determined that Pkha Romeat shows a 100% identical pattern with the famed Thai Hom Mali (™).

Pkha Rumduol and Pkha Rumdeng are each congruent with Thai Hom Mali in 17 markers and differ in the position of their 18th markers; thus, indicating that they are indigenous Cambodian varieties of the same Premium Quality Jasmine Rice.

### *What are the implications of this evidence?*

- Positioning of Premium Cambodian Jasmine Rice at par with Thai Hom Mali (™).
- Cambodia has its own original varieties (superior, as some would say).
- Cambodia can now DNA-certify the authenticity, identity, purity and fragrance of its Premium Jasmine Rice.

### *More sources/more information:*

<http://www.cardi.org.kh/?page=detail&ctype=article&id=212&lg=en>

Phka Romeat cannot be distinguished from Thai Hom Mali based on the 18 marker genes analysed

Phka Rumduol seems to differ in one marker gene

Phka Rumdeng differs in one marker gene

Neang Malis does not differ from Hom Mali