### Introducing World's First

Palm Olein + Extra Virgin Olive Oil Blend!

世界上第一个混合棕榈油 + 初榨橄榄油的食用油!

The Gold Standard of Cooking Oil backed by science. 以科学研究为基础的黄金标准食用油。



Palm Olein Olive Oil 棕榈橄榄油











# Fatty Acid Compositions of Selected Cooking Oil with its Respective Omega-3 and Omega-6 Content

#### 食用油的脂肪酸组成及其各自的 欧米茄-3 (Omega-3) 和 欧米茄-6 (Omega-6) 含量

OIL	SAFA	MUFA	ω6 18:2	ω6 18:2 ω3 18:3		rs	Comments
Coconut	84				6 1		High SAFA
Palm Kernel (PKO)	85				9 2		High SAFA
Palm Oil (PO)		48		41			High SAFA + MUFA
Palm Olein (POo)		44		42			High SAFA + MUFA; SQPO
Palm Superolein	. 39		45		9		High SAFA + MUFA; DFPO
Lard		36	4	41			High SAFA + MUFA
Cottonseed Oil	25	17		50	12		
Pomace Olive Oil	18		68				High MUFA
EVOO	13			71			High MUFA
Peanut Oil	16	44		31			
Macadamia Oil	17		65	65			High MUFA; 20% ω7 16:1
Avocado Oil	24		59		12		High MUFA; 13% ω7 16:1
Rice Bran Oil	25		38	32	2		
SFO	10	19		54			High 18:2 & 18:3
Rapeseed/Canola	7	59		20			High 18:3
SBO	14	23		49			High 18:2 & 18:3
HO SBO	10		76				High MUFA
HO SFO/RSO	7	61-84		6-29	2-8		High MUFA & 18:2
HO = high		= extra virgin o FPOo = double					quality POo available; e

Conclusion: Palm olein is as good as olive oil. 结论:棕榈油精与橄榄油一样好。

## Olive Oil Blends Well with Palm Oil 橄榄油与棕榈油完美融合



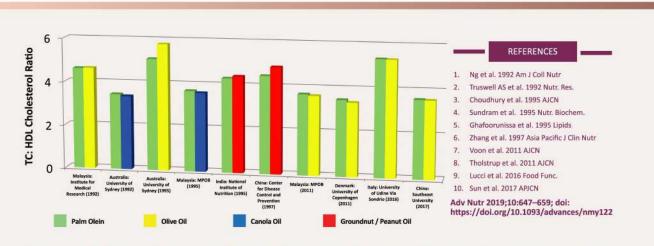
A sensory evaluation was carried out in Malaysia with most panel members being mainly Malaysian, along with 1 member each from China, India and Kazakhstan respectively. Most of the panel

members concluded that P90 is better in terms of taste and aroma. Majority of them preferred the 90:10 ratio to virgin olive oil.

我们在马来西亚进行了一项感官评审调查,评审组的大多数成员是马来西亚人,另外还有来自中国、印度和哈萨克斯坦的各一名成员。他们大多数成员的结论是,P90在味道和香气方面表现更出色。其中,多数人更喜欢90%棕榈油和10%橄榄油的比例。



## Nutritional Properties of Palm Olein 棕榈油精的营养特性



#### Intake of Palm Olein and Lipid Status in Healthy Adults: A Meta-Analysis

Phooi Tee Voon, Sin Tien Lee, Tony Kock Wai Ng, Yen Teng Ng, Xiou Shuang Yong, Verna Kar Mun Lee, and Augustine Soon Hock Ong Nutrition Unit,

Malaysian Palm Oil Board (MPOB), Selangor, Malaysia; <sup>3</sup>Department of Nutrition and Dietetics, Faculty of Medical and Health Sciences, University Putra Malaysia (UPM), Serdang, Malaysia; <sup>3</sup>Department of Biomedical Sciences, Faculty of Science, Universiti Tunku Abdul Rahman (UTAR), Kampar, Perak, Malaysia; <sup>4</sup>Department of Bioprocess Technology, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia (UPM), Serdang, Malaysia; <sup>5</sup>Department of Family Medcine, School of Medicine, International Medical University (IMU), Seremban, Negeri Sembilan, Malaysia; and <sup>6</sup>Academy of Sciences, Malaysia, Petaling Jaya, Selangor, Malaysia.

The chart above shows the total cholesterol level over HDL. For a healthy adult, the lower the ratio, the better.

上图显示了总胆固醇水平高于高密度脂蛋白。 对于健康的成年人来说,该比率越低越好。 The research has been conducted in the respective countries listed above, across multiple sector and ethnicity to ensure that the result is not biased towards a specific region or ethnicity.

该研究是在上述各个国家、跨多个部门和种族进行的,以确保结果不偏向特定地区或种族。

#### Why P90? 为什么是P90?

Fats are broadly categorised into saturated, monounsaturated (MUFA) and polyunsaturated (PUFA) and they are all present in our daily food consumption. To remain healthy, the American Heart Foundation introduced the idea of smart balance – a balanced intake of saturated, MUFA and PUFA fats. And MUFA is healthier than PUFA as it is low in Omega-6. Omega-6 has been identified as one of the biggest contributors in our body's inflammation.

脂肪大致分为饱和脂肪、单不饱和脂肪(MUFA)和多不饱和脂肪(PUFA),它们都存在于我们的日常食物中。 为了保持健康,美国心脏基金会引入了一个精明的平衡理念——均衡摄入饱和脂肪、MUFA 和 PUFA 脂肪。 MUFA 比 PUFA 更健康,因为它的 欧米茄-6含量较低。 欧米茄-6已被确定为导致我们身体发炎的最大因素之一。

Our scientists have done in-depth research on the impact of palm olein intake against the lipid status and reached conclusive results that palm olein has a positive impact on the blood lipids levels. With that, we developed P90 that has a high content (>90%) of unsaturation at the sn-2 position. We are proud to say that P90 is the gold standard of cooking oil!

我们的科学家对棕榈油精摄入量对血脂状况的影响进行了深入研究,并得出棕榈油精对血脂水平具有积极影响的结论。 由此,我们开发了在 sn-2位点具有高含量 (>90%) 不饱和度的 P90。 我们可以自豪地说,P90 是食用油的黄金标准!

#### Academician Tan Sri Emeritus Professor Datuk Dr Augustine Ong Soon Hock 丹斯里荣誉教授拿督王顺福博士

Palm Oil has been criticized over the vears due to the lack understanding. To set the record straight, Tan Sri Emeritus Professor Datuk Dr. Augustine Ong Soon, fondly referred to as the Father of Malaysian Palm Oil, cleared some myths surrounding the benefits of Palm Oil. Augustine received the Merdeka Award in 2012 for his significant role in advocating and promoting the Malaysian Palm Oil Industry to the world.

He began his career as a lecturer with the University of Malaya in 1959. He was a Fulbright-Hays Fellow at the Massachusetts Institute Technology (MIT) USA from 1966 to 1967. Before this, he read for a PhD Chemistry at Organic University of London King's College, 1961-1963.

His first patent, obtained in 1974, was on lipids research of the olein-stearin separation method. He later added 19 more patents to his name in palm oil research. These patents are from the US, the UK, Japan, Australia and Malaysia. His research on palm oil covered several aspects of palm its chemical composition, nutritional value to its waste treatment.

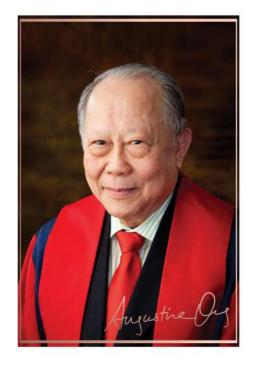
Augustine was also a co-researcher in the isolation of tocotrienol from palm fatty acid distillate. Tocotrienol, an anti-oxidant, has beneficial effects on brain neurons, is loaded with anti-cancer properties, and lowers the levels of bad cholesterol. Augustine's research inspired other scientists in other parts of the world to conduct similar research on palm oil.

In 1981, he conceptualised the conversion of palm oil to biodiesel. The project began with laboratory experiment and a pilot plant study, went on to field trials and subsequently proceeded to mass production for commercialisation in Malaysia, Thailand, Columbia and South Korea. Today, Malaysia is one of the world's leading biofuel producers, with several plants approved for production.

多年来,棕榈油因为缺乏理解而受 到批评。为了澄清事实, 丹斯里荣 誉教授拿督王顺福博士,又称"马 来西亚棕榈油之父",解答了一些 关于棕榈油好处的误解。王顺福于 2012年荣获马来西亚独立奖( Merdeka Award) ,以表彰他向全 球倡导和推广马来西亚棕榈油产业 的重要角色。

他的职业生涯始于1959年,当时他 在马来亚大学担任讲师。他曾于 1966年至1967年间在美国麻省理工 学院 (MIT) 担任富布莱特-海斯研 究员。在此之前,他于1961年至 1963年间在伦敦大学国王学院攻读 有机化学博士学位。

他于1974年获得他人生中的第一项 专利,专利内容涉及研究脂质里的 油酸-硬脂酸分离方法。后来,他 又在棕榈油研究领域获得了19项专 利,这些专利来自美国、英国、日 本、澳大利亚和马来西亚。他的 棕榈油研究涵盖了棕榈油的化学 成分、营养价值以及废物处理等 多个方面。



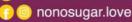
王顺福还是棕榈脂肪酸蒸馏物中生 育三烯酚的分离研究团队里的其中 一份子。生育三烯酚是一种抗氧化 剂,对脑神经有益,富含抗癌特性 ,还能降低有害胆固醇的水平。王 顺福的研究激发了世界其他地方的 科学家对棕榈油进行类似的研究。

1981年,他提出了将棕榈油转化为 生物燃料的概念。该项目从实验室 实验和试点研究开始,然后进行了 实地测试,随后大规模生产并在马 来西亚、泰国、哥伦比亚和韩国进 行了商业化。如今,马来西亚是世 界领先的生物燃料生产国之一,有 数个获批生产的工厂。

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