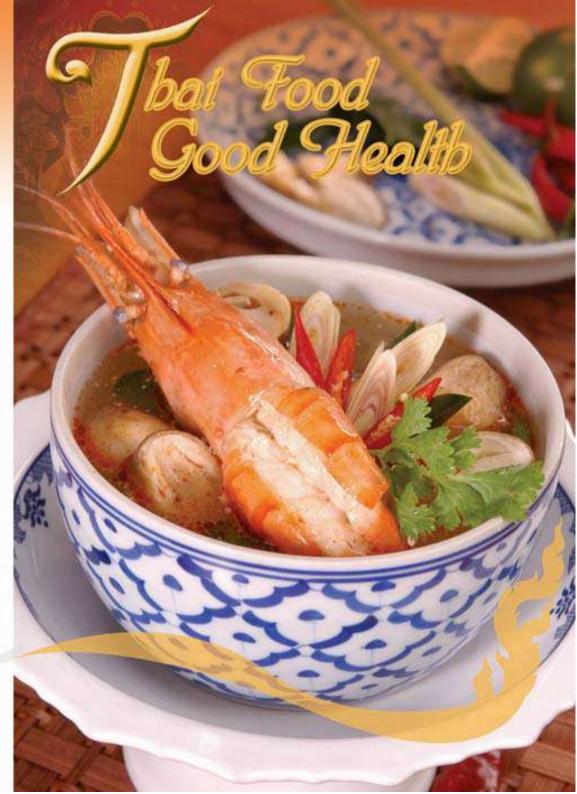
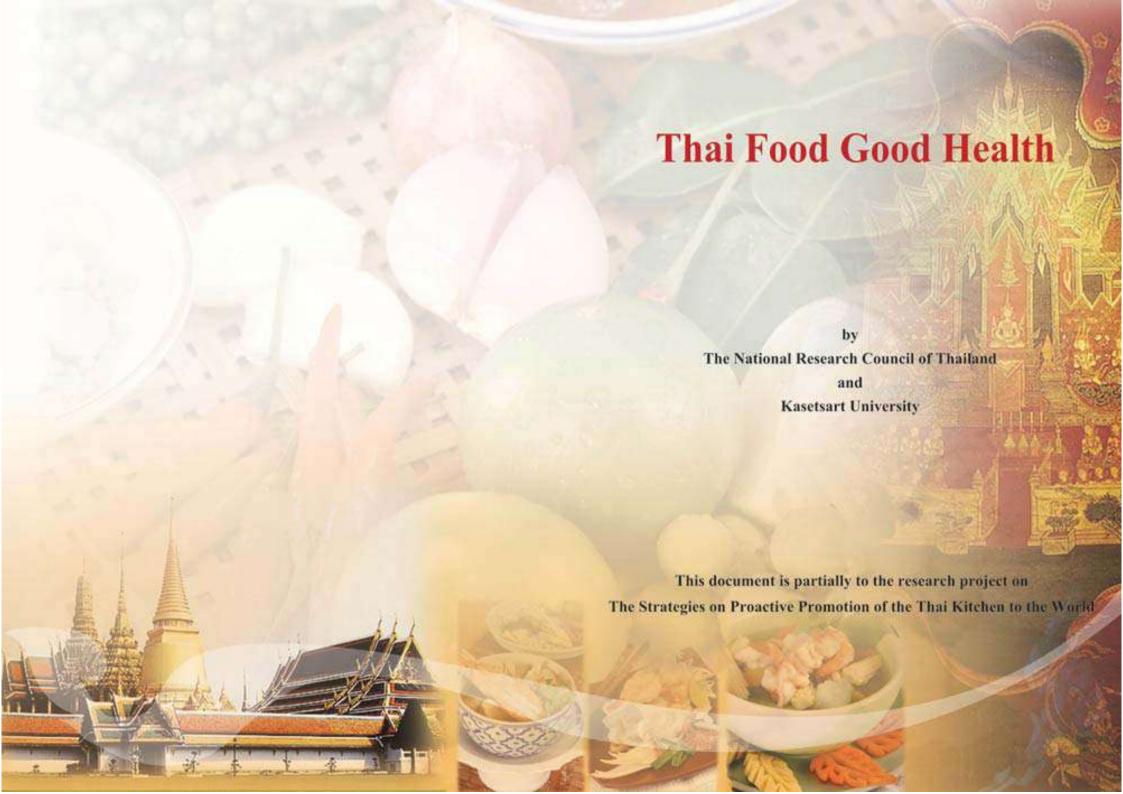


Department of Educational Technology, Faculty of Education, Kasetsart University





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## Thai Food Recipes for Health

Thai food is the cultural heritage that represents the Thai nationality and presently very popular worldwide. It is outstanding in term of tastes, high nutritional values and the diverse of herbs and spices that useful for health.



(Source: Research and Development of Thai Food Quality and Nutritional Values for Export)

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## Thai Food

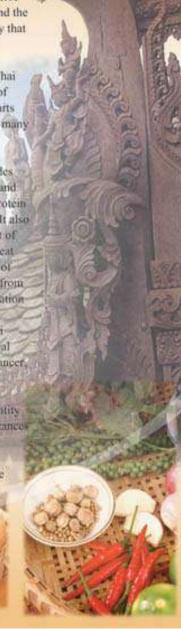
That food is a cultural inheritance transferred to and from generations. In That eating culture, rice is the main component to be consumed with other supplement. The That menu is composed of diverse methods on cooking, for instance, boiling, soup, frying, spicy salad and the chilli paste with the combination of tastes; sour, salty, sweet and spicy that are rarely found in other national cuisines.

Basically, the preparation and the cooking methods of the Thai food are delicate. In addition, the decoration by using various colors of vegetables and fruits including the carving of these materials are the arts inherited from the ancient time. These make the Thai food popular in many countries.

The Thai food whether a set or a one-plate dish, each provides five groups of nutritional values; carbohydrate, protein, fat, vitamins and minerals including fibers and in sufficient amount. Good quality of protein comes from various meats; chicken, pork, beef, egg and the seafood. It also provides adequate fat either from plants or animals. Generally, almost of the cooking methods require small amount of oil and not too much meat but emphasize on various vegetables and fruits which are the sources of vitamins and minerals, i.e. beta carotene to keep fresh and to prevent from cancer. Besides, the fibers in vegetables and fruits are good for evacuation and reduce the cholesterol in blood. Spices supplement for instance, ginger, galangal, lemon grass, kaffir lime leaf, sweet basil and krachai provide tasty fragrance and also medical substances to prevent and heal some diseases, i.e. obesity, cholesterol, heart diseases, diabetes and cancer, etc.

By the way, consumption of the Thai food in sufficient quantity and proportion to daily needs would supply adequate nutritional substance that suitable for adults who require weight control.

That food is outstanding in the combination of tastes and the nutritional values which are different from others and make the foods popular all over the world.





## Soup Category

## Tom Yam Kung

#### Ingredients

Shrimp	500	gm.
Mushroom	600	gm.
Chilli paste	150	gm.
Soup stock	2,500	gm.
Citric acid	10	gm.
Salt	15	gm.
Fish sauce	100	gm.
Lime juice	15	gm.

#### Ingredients for chilli paste

Dried chilli	10	gm
Lemon grass	40	gm
Shallots	40	gm
Galangal	10	gm
Kaffir lime leaves	5	gm
Vegetable oil	100	gm
Sugar	20	gm
Hot chilli	10	gm

#### (For 6 persons)



#### Preparation:

- Roast the chilli paste mixture and pound until ground then fry with oil and take aside.
- · Peel the shrimp except its tail
- · Peel the mushroom, divide by two
- Heat the soup stock and mix with all seasonings until boiling, add shrimps and mushroom and boil until done
- Add the chilli paste to favorite taste

#### Nutritional Value per 100 grams of food

Calories	Protein	Fat	Carbohydrate	Fiber	Calcium	Iron
(Kcal.)	(gm.)	(gm.)	(gm.)	(gm.)	(mg.)	(mg.)
43.47	3,60	2.15	2.43	0.90	24.66	0.23

Strength: Low fat and low calories.





## Tom Kha Kai

#### Ingredients:

Chicken	500	gm.	Kaffir lime leaves	3	gm,
Coconut milk	1,000	gm.	Soup powder	11	gm.
Mushroom	200	gm.	Salt	10	gm.
Fresh galangal	50	gm.	Hot chilli	10	gm.
Bashed galangal	25	gm.	Lime juice	50	gm.
Bashed lemon grass	100	gm.	Fish sauce	6	gm.
Coriander root	37	gm.	Coriander leaves	5	gm.

(For 6 persons)



#### Preparation:

- Cut up the chicken
- Mix galangal, lemon grass, kaffir lime leaves and coriander root, all bashed, add coconut milk and heat until fragrant, add chicken and low heat until done then season with salt, soup powder, fish sauce, hot chilli, mushroom, remove from heat, add lime juice and sprinkle with coriander leaves

#### Nutritional Value per 100 grams for food

Calories	Protein	Fat	Carbohydrate	Fiber	Calcium	Iron
(Kest.)	(gm.)	(gm.)	(gm.)	(gm)	(mg.)	(mg.)
95.96	7.44	5.96	3.14	1.06	11.31	0.24

Strength: Phosphorus and low fat.



# Spices Mixture Category

## Kaeng Khiao Wan Kai

#### Ingredients

Chicken	500	gm.
Kaeng Khiao Wan chilli paste	200	gm.
Coconut milk	1,000	gm.
Coconut cream	250	gm.
Ma-kheua phuang	400	gm.
Green & red chilli	30	gm.
Sweet basil	40	gm.
Kaffir lime leaves	2	gm.
Palm sugar	30	gm.
Fish sauce	80	gm.

#### (For 8 persons)

#### Ingredients for chilli paste

Hot chilli	30	gm.
Chilli	10	gm.
Lemon grass	15	gm.
Galangal	7	gm.
Kaffir lime skin	8	gm.
Garlie	60	gm.
Shallot	40	gm.
Coriander seed	5	gm.
Cumin	2	gm.
Реррег	3	gm.
Coriander root	5	gm.
Sweet basil	20	gm.
Salt	5	gm.
Shrimp paste	10	gm.
Vegetable oil	150	gm.

#### Preparation:

- Pound all the mixture for chilli paste, fry with oil and take aside
- Fry chilli paste with a bit coconut cream until fragrant, add chicken and fry rather done
- Add coconut milk
- Season with sugar, fish sauce, ma-kheua phuang, stir until done, add coconut cream, chilli, kaffir lime leaves and sweet basil

#### Nutritional Value per 100 grams for food

Calories	Protein	Fat	Carbohydrate	Fiber	Calcium	Iron
(Kcal.)	(gm.)	(gm.)	(gns.)	(gm.)	(mg.)	(ing.)
113.6	6.41	8.04	3.85	2.34	41.27	0.72

Strength: Protein, fat and high fiber.



## Beef Masaman

#### Ingredients

Beef	1,000	gm.
Masaman chilli paste	320	gm.
Coconut milk	2,400	gm.
Coconut cream	200	gm.
Cardamom	10	fruits
Bay leaf	9	leaves
Cinnamon	3	gm.
Potato	600	gm.
Palm sugar	280	gm.
Fish sauce	220	gm.
Tamarind juice	200	gm,

#### (For 10 persons)

#### Preparation:

- Roast chilli paste mixture until fragrant
- · Pound thoroughly and fry with oil
- Cut up the beef
- Simmer the meat in the coconut milk until tender, use low heat

#### Nutritional Value per 100 grams for food

Calories	Protein	Fat	Carbohydrate	Fiber	Calcium	Iron
(KcaL)	(gm.)	(gm.)	(gm.)	(gm.)	(mg.)	(mg.)
187.33	6.70	12.09	12.93	1,60	22.46	1.06

Strength: Protein, high fat, high calories and fiber

## Ingredients for chilli paste

Dried chilli	25	gm.
Shallot	120	gm.
Garlie	60	gm.
Lemon grass	15	gm.
Galangal	15	gm.
Cinnamon	2	gm.
Coriander seed	10	gm.
Cumin	5	gm.
Cardamom	0.5	gm.
Clove	0.5	gm.
Pepper	3	gm,
Ginger	10	gm.
Roasted peanut	10	gm.
Shrimp paste	10	gm.
Salt	10	gm,
Vegetable oil	200	gm.





## Kaeng Liang



Pepper	12	gm.
Shallot	82	gm.
Ground dried shrimp	60	gm.
Shrimp paste	26	gm.
Hot chilli	2	gm.
Sweet basil	46	gm.
Gord gourd	108	gm.
Sponge gourd	264	gm.
Mushroom	176	gm.
Pumpkin	432	gm.
Water	2,224	gm.

(For 6 persons)

#### Preparation:

- Pound pepper, shallot and dried shrimps then add shrimp paste, mix thoroughly
- Dissolve the chilli paste in water and heat until boiling
- Add vegetables and season as taste

#### Nutritional Value per 100 grams for food

Calories	Protein	Fat	Carbohydrate	Fiber	Calcium	Iron
(KcaL)	(gm.)	(gm.)	(gm.)	(gm.)	(mg.)	(mg.)
25.96	2.29	0.24	3.66	1.00	34.30	0.65

Strength: Low fat, low calories and fiber



## Fried and Salad Categories

## Kai Phad Phed

#### Ingredients

Chicken	442	gm.	Coriander root	2	gm.
Krachai	6	gm.	Fresh pepper	18	gm.
Dried chilli	18	gm.	Water	536	gm.
Pepper	2	gm.	Oil	10	gm.
Kaffir lime skin	4	gm.	Fish sauce	17	gm.
Galangal	12	gm.	Palm sugar	14	gm.
Lemon grass	20	gm.	Sweet basil	10	gm.
Shallot	28	gm.			
Garlie	44	gm.			
Salt	24:	gm.			
Shrimp paste	6	gm.			

#### (For 4 persons)

#### Preparation:

- Cup up the chicken
- Pound the chilli mixture with krachai, chilli, pepper, kaffir lime skin, galangal, lemon grass, shallot, garlic, salt, coriander root and shrimp paste thoroughly
- Heat the pan and fry the chilli paste with oil
- Add chicken and fry until done, add water and simmer with low heat
- Season with fish sauce and palm sugar and sprinkle with sliced krachai, fresh pepper and sweet basil

#### Nutritional Value per 100 grams for food

Calories	Protein	Fat	Carbohydrate	Fiber	Calcium	Iron
(Keal.)	(gm.)	(gm.)	(gm.)	(gm.)	(mg.)	(ing.)
122.88	10.88	5.68	7.06	2.32	40.43	1,29

Strength: Protein and fiber.



#### 2010/10/de a at 16/10/10/20

## Phanaeng Kai

#### Ingredients

Chicken	500	gm.	Kaffir lime skin	5	gm.
Coconut milk	500	gm.	Palm sugar	60	gm.
Dried chilli	18	gm.	Shrimp paste	25	gm.
Galangal	6	gm.	Coriander seed	8	gm.
Lemon grass	12	gm.	Cumin	4	gm.
Shallot	25	gm.	Roasted peanut	20	gm.
Garlie	60	gm.	Chilli	100	gm.
Coriander root	15	gm.	Kaffir lime leaves	2	gm.
Pepper	6	gm.	Fish sauce	10	gm.
			Salt	10	
			Suit	10	gm.

(For 5 persons)

#### Preparation:

- Cut up the chicken and take aside
- Pound the chilli mixture with dried chilli, galangal, lemon grass, shallot, garlic, coriander root, pepper, kaffir lime skin thoroughly, add roasted peanut
- · Roast coriander seed and cumin and pound thoroughly
- Heat the pan and pour an amount of coconut milk, add chilli paste and fry until fragrant and shine, add spices and chicken and fry until done, add coconut milk and simmer with low beat until rather dried
- Season with fish sauce, palm sugar and sprinkle with sliced kaffir lime leaves
   And chilli

#### Nutritional Value per 100 grams for food

Calories	Protein	Fat	Carbobydrate	Fiber	Calcium	Iron
(Kcal.)	(gm.)	(gmc)	(gm.)	(gmi.)	(mg.)	(mg.)
174.15	13.24	9,19	9.62	2,60	3.99	8.32

Strength : Adequate protein, fat, calories and fiber



Ingredients

## Somtum

#### Ingredients for Som Tam Sauce

400	gm.
120	gm.
80	gm.
120	gm.
5	gm.
25	gm.
8	gm.
	120 80 120 5 25

Tamarind juice	100	gm.
Fish sauce	80	gm.
Salt	1	gm.
Citric seid	1.5	gm.
Palm sugar	150	gm.
Water	50	gm.
Lime juice	20	gm.

#### (For 4 persons)

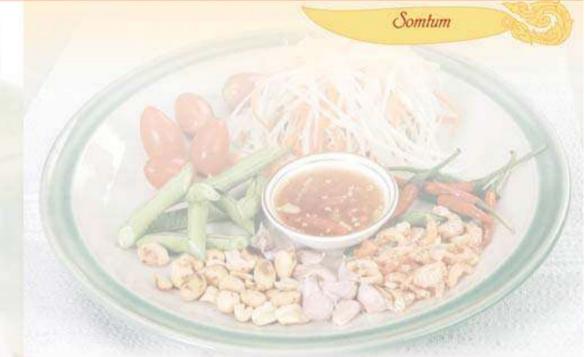
#### Preparation:

- Mix all the ingredients for sauce together and boil, simmer until rather sticky.
- Pound chilli and garlic roughly
- Add papaya, long beans, tomato and dried shrimp and pound roughly
- Mix Som Tam sauce and season to sour taste with lemon juice and serve with fresh vegetables; cabbage, swamp cabbage and long beans

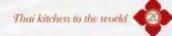
#### Nutritional Value per 100 grams for food

Calories	Protein	Fat	Carbohydrate	Fiber	Calcium	Iron
(Kcal.)	(gm.)	(gm.)	(gru.)	(gm,)	(mg.)	(mg.)
62.23	3.36	0.51	11.05	1.75	55.06	0.58

Strength: Low fat, calories and adequate fiber.







## One-plate Dish Category

## Phad Thai

#### Ingredients

Narrow rice noodles	400	gm.
Water	400	gm.
Phad Thai sauce	320	gm.
Dried shrimp	60	gm.
Chopped salted white rac	lish 40	gm.
Yellow soybean curd	160	gm.
Bean sprouts	400	gm.
Chinese leek leaves	60	gm.
Egg	4	eggs
Vegetable oil	120	gm.
Ground peanut	40	gm.

#### Ingredients for Phad Thai sauce

Shallot	50	gm.
Garlic	25	gm.
Palm sugar	125	gm.
Sugar	10	gm.
Fish sauce	50	gm.
Tamarind juice	25	gm.
Vinegar	33	gm.
Salt	1	gm.
Ground dried chilli	1	gm.
Vegetable oil	40	gm.

#### (For 4-5 persons)

Pound shallot and garlic until ground and fry with oil until fragrant, add other mixture, simmer until sticky.



#### Preparation

- Fry rice noodles with water until soft
- Add sauce and mix thoroughly
- Add dried shrimp, chopped salted white radish and soybean curd
- Add oil around the pan, break eggs and fry until done
- Add bean sprouts, Chinese leek leaves and fry and serve warmly



Calories	Protein	Fot	Carbobydrate	Fiber	Calcium	Iron
(Keal.)	(gm.)	(gm.)	(gm.)	(gm.)	(mg.)	(mg.)
216.16	7,26	10.84	22.39	1.78	67.98	0.94

Strength: High calories, protein, fiber, calcium and phosphorus.





## Khao Phad Kra Prao

#### Ingredients

Cooked rice	250	gm.
Kra Prao sauce	70	gm.
Chicken	80	gm.
Soup stock	2	table spoon
Vegetable oil	1	table spoon
Sliced chilli	5	gm.
Sacred basil	10	gm.

(For2 persons)

#### Ingredients for Kra Prao sauce

Sacred basil	10	gm.
Red & green hot chilli	35	gm.
Garlie	75	gm.
Shallot	25	gm.
Galangal	10	gm.
Ground black pepper	1.5	gm.
Shrimp paste	3	gm.
Fish sauce	75	gm.
Palm sugar	20	gm.
Salt	5	gm.
Vegetable oil	100	gm.
Water	200	gm.

#### Preparation:

- Pound hot chilli, garlic, shallot, galangal, black pepper, shrimp paste together and add sacred basil and pound roughly
- Fry the chilli paste with hot oil and season with salt, palm sugar and fish sauce
- Fry chicken with oil, add chilli, rice and Kra Prao sauce, fry thoroughly and add sacred basil and serve warmly

#### Nutritional Value per 100 grams for food

Calories	Protein	Fat	Carbohydrate	Fiber	Calcium	Iron
(Keal.)	(gm.)	(gm.)	(gm.)	(gm.)	(mg.)	(mg.)
153.36	7.35	5,0	19.74	1.39	20.62	0.35

Strength: Low calories, fat and high fiber.



## Nam Ya Pla

#### Ingredients:

Serpent head fish	500	gm.
Coconut milk	1,000	gm.
Dried chilli	50	gm.
Krachai	220	gm.
Shallot	56	gm.
Garlic	75	gm.
Galangal	10	gm.
Lemon grass	10	gm.
Shrimp paste	18	gm.
Palm sugar	25	gm.
Salt	8	gm.
Salted fish	50	gm.
fish sauce	10	gm.

(For 6 persons)

#### Preparation:

- Pound dried chilli, salt, garlic, galangal, lemon grass, shallot, krachai until ground, add shrimp paste and salted fish
- · Boil the fish until done, remove the fish meat and add with chilli paste
- Boil an amount of coconut milk, add the chilli paste, stir, softly add the less coconut milk, stir together and season with fish sauce and palm Sugar
- Served with fermented Thai noodle and vegetables

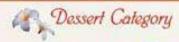
#### Nutritional Value per 100 grams for food

Calories	Protein	Fat	Carbohydrate	Fiber	Calcium	Iron
(Kcal.)	(,mg)	(gm.)	(gm.)	(gm.)	(mg.)	(mg.)
149.7	4.24	12.74	4.52	1.41	28.12	7.0

Strength: High fat, calories and fiber







## Kluay Buad Chee



Ripe banana	12	fruits
Coconut milk	1,000	gm.
Coconut cream	200	gm.
Sugar	200	gm.
Salt	5	gm.

(For 12 persons)

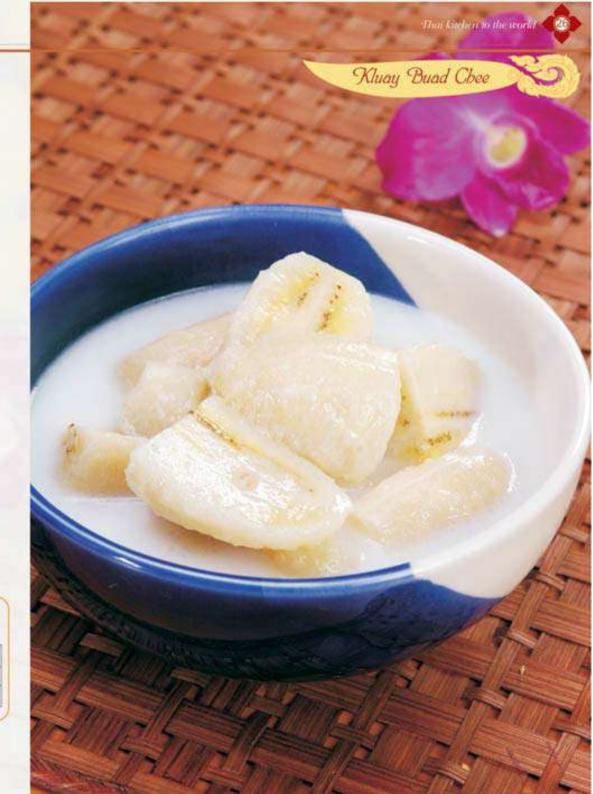


- Peel banana and divide into 4 pieces
- Dissolve sugar and salt in the coconut milk
- Heat the coconut milk until slightly boiled, add the bananas, heat until boiling
- Add coconut cream and boil

#### Nutritional Value per 100 grams for food

Calories	Protein	Fut	Carbohydrate	Fiber	Calcium	Iron
(Kest.)	(gm.)	(gm.)	(gas)	(gm.)	(.ga)	(mg.)
193.20	1.31	10.0	24.49	1.23	6.69	0.53

Strength : Fat, fiber and high calories.



# Additional Recipes Recommended

The special qualification of the Hom Mali rice species is the white color of the seed similarly to the color of the jasmine flower plus the fragrance of the Pandanus leaves. The seeds after boiling are soft and delicious. These made Khao Hom Mali popular and favorite among the foreigners.

There are also various recipes of the Thai food recommended, for instance;



Khao Tang Nha Tang



Xbao Xriab Pak Mob



Spring rolls



Pork Salay



Kat Hao Bat Tooy



Sticky rice with ripe mange



Sticky rice with toppings



Sackfruit in syrup.

# Thai Herbs in Food for Health

Thai food is composed of herbs as the main compositions which refer to plants and vegetables including seasonings and spices.

These represent the identity of the Thai food. Spices are used to season the odors, tastes and colors of the foods and as well to prevent the savory of the meat. Moreover, these spices contain various medical characteristics, thus Thai food is appropriate to good health.

(Source: Nutritive Values of Healthy Thai Foods, 2002)

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# Food application

#### Medical application



Krachai

The rhizome of krachai is used in some specific mixture, almost are for fish soup; Nam Ya Pla and Kaeng Som due to the spicy and bitter taste of krachai that are good to reduce the fishes' savory and as well to other fish dishes; Phad Phed Pla Dook (spicy fried catfish) and Kaeng Khiao Wan Pla Graay, etc.

Kra prao or sacred basil is used in Kaeng Pha, Kaeng Kae and some spicy fried meat dishes to reduce the savory of the fish meat. Fresh leaves are sprinkled on and before removing from heat.

- carminative
- antihistamine
- antifungal, bacterial
- Cardamonin to stop the growth of cancer



- reduce sugar in blood
- release tension
- stomachic

# Turmeric

#### Food application

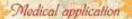
Turmeric is used in curry dishes, normally in Kaeng Phed, Kaeng Tai Pla and Kaeng Luang and as well other dishes of southern food. It is also good as a coloring agent.





#### Tood application

Lemon grass is spicy and bitter and used for seasoning the Thai food and as the main ingredient in every recipe of Kaeng Phed, spicy salads and Tom Yam.



- carminative
- antibacterial, fungal, yeast
- diuretic

- carminative

- diuretic



Galangal is used both its flowers as vegetables and fresh and hard rhizomes. The hard rhizome is very spicy and good to season many recipes of chilli pastes, the fresh rhizome is found good in Tom Kha Kai.



- carminative
- stop the growth of cancer
- antifungal, bacterial and yeast



- carminative
- antihistamine
- antibacterial, fungal, yeast, virus



This plant can be used by every part; plant, root, leaves and fruits. Normally, the coriander leaves are sprinkled to season the food, while the coriander fruits are mixed in the soup and curry for good smell and its root is used together with garlie in soup and some kind of snacks and desserts.

The popular species of chilli used for tastes. Chilli can be used both fresh and dried or pickling in vinegar and to every



- to protect cancer
- + carminative
- · expectorant
- relief pain
- relief sickness









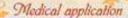


#### Food application

Pepper is popularly found in every kind of chilli pastes, in soup together with coriander root and garlic and as well sprinkle for good smell. It is normally used in cooking of Kaeng Phed, Kaeng Pa and Phad Phed.

Kaffir lime skin is one of spices mixed in chilli paste for Kaeng Phed and Phad Phed, and in Nam Prik (for Thai noodles). Kaffir lime juice is sour and used to reduce savory of meat. It is actually mixed in fermented fish paste, Kaeng Som and Kaeng Tay Po. Chopped kaffir lime leaves are used to reduce meat smell and season Kaeng Phed, Phad Phed, Chu Chee Pla, Kaeng Tom Som, Tom Yam, Hua Mok, Tam Kanoon, Khao Yam and etc.

Lime juice is used to make sour taste in Tom Yam, Som Tum, Phla, spicy salads and many chilli pastes and as well lime juice for drink.



- carminative
- expectorant
- diuretic
- stomachie /colie
- digestive
- carminative
- expectorant

· expectorant

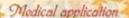
- carminative

antiscorbutic



#### Food application

Sweet basil is used to season the food odor, Kaeng Lieng, Kaeng Nhoa Mai, Oam Pla and also as vegetable for Nam Ya and chilli paste.



- carminative
- laxative



Cumin is roasted and pounded to make chilli paste in some curries, Kaeng Phed and Kaeng Khiao Wan.

- carminative
- expectorant



Onion is used in Kaeng Masaman, spicy salads, and soup stock.

- carminative



Shallot is used to reduce meat savory and as seasoning and also the main ingredient in chilli paste for Kaeng Phed, Tom Kloong, Kaeng Lieng, Tom Yam, Lhun, Yam, Larb and Nam Prik and as well in some desserts.

- carminative

- stomachic

- catarrh relief



Sweet basil

Sweet basil is used as vegetable supplement and also odor seasoning in spicy recipes; Kaeng Phed and Phad Phed.

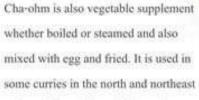
carminative





#### Food application

In the middle part recipe, the fresh leaves are used to wrap the tidbits of Miang khum. In the south, they are used in some curries with shrimp, fish and mussels and as well as vegetables with chilli paste.



Fresh leaves and young flowers are blanched or boiled to supplement with the chilli paste. Its flowers are used as

syrup.

#### Medical application

- stomachie
- expectorant

- cooling

- colic

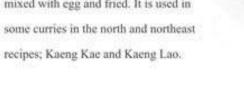


#### Food application

That people in every part eat the tamarinds' fresh leaves, flowers and the pods as vegetables and seasoning agents. The content in the ripe pods provides sour taste. People in the middle part of Thailand use the young pods as ingredient of the tamarind paste. The fresh leaves are used in soups; Tom Klong Pla Kroab and Pork and pumpkin in coconut soup.



- carminative
- cooling
- laxative
- antihistamine







Thai food and found in every recipe prior to fry vegetables and meat. It is also unable to be missed in soup and chilli paste and as well spicy salad. This is including the pickled garlie, garlie plants and fried chopped garlic to sprinkle the food.

Garlie is actually important ingredient in

- carminative
- reduce blood pressure
- prevent heart disease
- antibacterial, fungal, yeast, virus



The blanched leaves are delicious with chilli paste. Gord gourd is good also as ingredient in many recipes; vegetable soup, Kaeng Lieng or fried vegetable or mix with omelet.

- · intestinal stimulating
- carminative
- · colic
- antipyretic
- reduce sugar in blood



