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Inventor and developer of ATD AMINO

100% Natural Amino Extract

For enriching plants

What is ATD AMINO?

With R&D, Experiments from Kasetsart University aiming to produce pure natural products to help increasing agricultural crops and reduce chemical and fertilizer expenditure effecting agriculturist health and long-term soil damaged.

“R&D recovers ATD AMINO using natural products enriching natural”

ATD AMINO is Biotechnology innovation which has benefit on plants. Products made with high quality raw materials such as honey, royal jelly, bee pollen which are 100% chemical free.

ATD AMINO is not fertilizer, hormone, fermented or EM which are general products in the market. These products will provide only short-term limited efficient.

ATD AMINO is natural protein extract which multiple microbe function to digest organic substance into plant's food. Also, transforming ghastly environmental cultivation into plentiful with no chemical residue.

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What makes ATD AMINO different from other products?

ATD AMINO is not fertilizer or hormone extract but it made from pure natural which enrich soil and plants. Nowadays, several countries especially in Europe, Japan and USA concern about chemical residue on plants and enforce strictly control policy. These countries are main markets for Thai exporters.

Even in our country, people are more concern on healthy life and healthy food. Organic vegetables, fruits and agricultural crops could mark higher price in the market. Consumers are willing to pay more in order to protect themselves and family from chemical residue which come with goods

<p>Difference between ATD AMINO and other amino substance for plants: other amino substance mostly the extract of shrimp shell, crab shell, food scraps, soy bean residue, industries residue which provide low nutrient. Besides, might obtain metal substance which harm soil and plants in long term.</p>	<p>In contrary, ATD AMINO extracts from rich raw materials such as honey, royal jelly, bee pollen which made high quality Amino and free from metal substance residue approved by central labotary (Thailand) Co.,Ltd (TR53/02122-1 Rev.1)</p>
<p>How ATD help reducing cost?</p> <p>Reducing fertilizer cost</p> <p>As fertilizer is one of major cost for agricultural. Especially, long term usage of chemical fertilizer land, mostly contain high dose of chemical residue. These cause inefficient soil. In order to maintain product quantity,</p>	<p>Agriculturists have to use more chemical fertilizer. Most of revenue goes to fertilizer rather than lifting agriculturists' standard of living.</p>

### Example of increased income by using ATD AMINO

	In-season rice field		Double crop field		Products bucket(20liters) /rai(1,600m <sup>2</sup> )	Price
	Formular fertilizer	Urea fertilizer	Formular fertilizer	Urea fertilizer		
General agricultural	50 Kg	20 Kg	50 Kg	30 Kg	60-70 buckets	Bt x,xxx
Using ATD AMINO	25 Kg	Use when necessary (less than 10 Kg)	25 Kg	Use when necessary (less than 10 Kg)	90-100 buckets	Bt x,xxx

### Why we recommended ATD AMINO 20 Mighty plants?

ATD AMINO 20 Mighty plants are pure natural amino extract which nourish plants and easily absorb which provide:

- Use as an additional with Chemical fertilizer efficiently
- Provide agriculturists their best benefit
- Recovery from dilapidated
- Help balancing in all perspectives
- Tolerate with bad environment such as drought, frosty
- Help transform benefit substances into simpler form for plants to absorb
- Provide plants with necessary nutrient
- Leafs got bigger and greener which help photosynthesis

When using ATD AMINO 20 mighty plants on regular basis, will cut down chemical fertilizer by 50% As ATD AMINO 20 Mighty plants helps chemical fertilizer works efficiently on plants result in natural green leaves.

### Lifting agriculturists long-term standard of living

When reducing chemical Fertilizer. Not only products quantity and quality will be increased, but also enrich soil condition by accumulating organic substance which provide high nutrient for plants. These will benefit to agriculturists in long-term. Since chemical and fertilizer are reducing, products will develop into agriculture safety and finally become organic agricultural. Thus, these chemical free agriculture will absolutely makes healthier life. Furthermore, organic products will mark higher price than general products. These will improve standard of living in long term.

## Usage of ATD AMINO 20 Mighty plants

(No sticking agent required, able to use with chemical agricultural products with no extra cost on spraying)

Type	Dose	Usage (1 lit=20cc)
Rice	(able to spray with all chemical products)	
	40 cc/20 liters water/rai	Tillering phrase
	40 cc/20 liters water/rai	At the beginning of pregnancy
	40 cc/20 liters water/rai	Pregnancy period
	40 cc/20 liters water/rai	Grains period
Rubber tree	20cc/20 liters water	Spray Mighty plants (ATD AMINO20) with Mighty soil (ATD AMINO 3) on slit surface every 15-20 days
	20cc/ tree	Start using by drop 30-50-cm away from tree stock
	20cc/tree	Use for second time 1 month after the first time and every 3 months after that (start this process every time when rubber trees shed leaves)
Palm	40cc/20 liters water	Spray every 3 months after plant for a month until dormancy phrase before blooming
	40cc/20 liters water	Spray every 20-30 days while blooming
Cassava	40cc/20 liters water/rai	20 days after plant until 3.5 months, then once a month
Sugar cane/corn	40cc/20 liters water/rai	Sugar cane: spray once a month after planted for 1-3 months
		Corn: spray every 15 days after 5-10 days planted until harvest
Vegetable	40cc/20 liters water/rai	Spray every 5-7 days after 5-7 days planted until harvest
Horticulture and fruits	40cc/20 liters water/rai	Spray 3 times/seasons after 1 month planted until dormancy period, before bloom until harvest
	40cc/20 liters water/rai	Spray while dormancy phrase and after blooming
Flowerer and garden tree	40cc/20 liters water	Spray every 10-25 days after 7 days planted

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Agriculturists' actual result after using ATD AMINO 20 Mighty plants

Not using

Sprouts grow inconsistently

Golden rod grow in patch

Tomatoes bear few fruits

Latex flow inconsistently

Bear few pods and stunted

Using

Sprouts grow consistently and healthy

Golden rod grow steadily

tomatoes bear plentifully

latex flow consistently and thick

plentiful pods with long and thick

Agriculturists' actual result after using ATD AMINO 20 Mighty plants

Mr. Kasem Intraskul, Former Director of Rubber Research Institute of Thailand

"I am so glad that independent researchers has invented this excellent product which can enable rubber smallholders to get higher rubber yield"

Mr. satja MoMin (Uncle Aun) Former village head, rice field user from Bangnumprew district Chachengsao province

"I has compared this product in the rice fields by using ATD in one plot whereas the other plot using biological fertilizer. I found out that rice yield from ATD field is much prospers than the other. Moreover, when I try to sprayed ATD in my other field that used to be attacked by rats, it's surprising me that after a few day, destroyed rice just grow up again"

Ms. Jumpee Pokom (lek) User for transplants rice seedling field, Muang district Chinart province

"Rice sprouts are healthy with strong and thick roots"

Mr. Kanachon Srichaisiri (sun) user for Golden rod field, kratumban district samutsakorn province

"If glow plant in summer, the more we watering, the more sprouts will die. After using ATD, watering will not has any affect to plant but controvertibly give more flowers"

Mr. Sittisak Pinyopapmongkol (lim), user for leek field from kratumban district samutsakorn province

" Using ATD has resulted in strong and thicker stem, leek produced is increasing from 500 kg to 800 kg"

Ms. Sanga youngcham (nga) user for sweet corn field from kumpangsan district Nakornpatom district

"After using ATD corn pod is bigger and filled with strong roots.