

EMPAKTOR ORGANIC LIQUID FERTILIZERS APPLICATION GUIDE

FRUIT TREE CROPS (GRAPES & GRAPE VINES, MANGO, AVOCADO, CASHEW, COCOA, COCONUTS)

15-20 days before flowering:

Mix 1 litre of EMPAKTOR AMINO, 2 litres of EMPAKTOR GREEN and 1 litre of EMPAKTOR BALANCE with 400 litres of non-chlorinated water and apply to 60 trees. Application should be done to the canopy projection area of the tree from the soil

Flowering Period:

Mix 1 litre of EMPAKTOR AMINO and 1 litre of EMPAKTOR BALANCE with 400 litres of non-chlorinated water and apply to 60 trees. Application should be done to the canopy projection area of the tree from the soil

Fruit Growth Period:

Mix 1 litre of EMPAKTOR AMINO, 1 litre of EMPAKTOR BALANCE and 1 litre of EMPAKTOR GREEN with 400 litres of non-chlorinated water and apply to 60 trees. Application should be done to the canopy projection area of the tree from the soil

Ripening Period:

Mix 1 litre of EMPAKTOR AMINO, 1 litre of EMPAKTOR BALANCE, and 1 litre of EMPAKTOR GREEN with 400 litres of non-chlorinated water and apply to 60 trees. Application should be done to the canopy projection area of the tree from the soil

Note: As the plant grows in height, the amount of water to be used will increase. The amount of water used in fruit trees varies according to the size of the tree.

COTTON

At a stage when there are 4-6 leaves:

Mix 1 litre of EMPAKTOR AMINO, 1 litre of EMPAKTOR GREEN and 1 litre of EMPAKTOR BALANCE with 200 litres of non-chlorinated water and apply to a hectare.

After 10-15 days:

Mix 2 litres of EMPAKTOR AMINO, 2 litres of EMPAKTOR BALANCE and 2 litres of EMPAKTOR GREEN with 300 litres of non-chlorinated water and apply to a hectare.

10-15 days later at the beginning of carding:

Mix 1 litre of EMPAKTOR AMINO, 1 litre of EMPAKTOR BALANCE, and 1 litre of EMPAKTOR GREEN with 300 litres of non-chlorinated water and apply to 60 trees.

CORN/MAIZE

Between 15-21 days:

Mix 2 litres of EMPAKTOR AMINO and 1 litre of EMPAKTOR GREEN with 200 litres of non-chlorinated water and apply to a hectare.

Between 40-45 days:

Mix 2 litres of EMPAKTOR GREEN, 1 litre of EMPAKTOR AMINO, and 2 litres of EMPAKTOR BALANCE with 200 litres of non-chlorinated water and apply to a hectare.

Between 55.75 days:

Mix 1 litre of EMPAKTOR GREEN, 1 litre of EMPAKTOR AMINO, and 2 litres of EMPAKTOR BALANCE with 200 litres of non-chlorinated water and apply to a hectare.

SOYABEANS

When there are 3-5 leaves:

Mix 2 litres of EMPAKTOR AMINO and 1 litre of EMPAKTOR BALANCE, and 1 litre of EMPAKTOR GREEN with 200 litres of non-chlorinated water and apply to a hectare.

When there are 6-8 leaves (before flowering):

Mix 2 litres of EMPAKTOR GREEN, 1 litre of EMPAKTOR AMINO, and 1 litre of EMPAKTOR BALANCE with 200 litres of non-chlorinated water and apply to a hectare.

After all capsules have formed flowers (after flowering):

Mix 2 litres of EMPAKTOR BALANCE, 1 litre of EMPAKTOR AMINO, and 1 litres of EMPAKTOR GREEN with 200 litres of non-chlorinated water and apply to a hectare.

RICE

Before Planting:

2-3 tons of water are added to 1 ton of seeds, so that they remain in water. 1 litre of EMPAKTOR AMINO is added to it and left for 24 hours. The seed swells and forms a nose. Afterwards, the paddy can be planted in the water on the land. Germination occurs within 3-4 days. 13 days after seed throwing, the water is allowed to recede before herbicide is applied.

Foliar fertilization is carried out on the 20-21st day.

Mix 1 litre of EMPAKTOR AMINO and 2 litres of EMPAKTOR BALANCE with 200 litres of non-chlorinated water and apply to a hectare.

Between 30-35th day, 2 bags of urea can be applied if necessary

Between 50-55th day, the recovery period begins. This is called the "dry period" in Turkey.

Mix 1 litre of EMPAKTOR AMINO and 2 litres of EMPAKTOR GREEN with 200 litres of non-chlorinated water and apply to a hectare.

Between the 70th and 75th day, the spike begins to scrape.

At this stage, mix 1 litre of EMPAKTOR AMINO, 2 litres of EMPAKTOR GREEN, and 2 litres of EMPAKTOR BALANCE with 200 litres of non-chlorinated water and apply to a hectare.

VEGETABLE GROUP (TOMATO, PEPPER, OKRA, CARROT, CUCUMBER, EGGPLANT, STRAWBERRY)

15 days after planting:

Mix 1 litre of EMPAKTOR AMINO, 1 litre of EMPAKTOR GREEN, and 1 litre EMPAKTOR BALANCE with 200 litres of non-chlorinated water and apply to a hectare.

15-20 days later:

Mix 2 litre of EMPAKTOR AMINO, 2 litres of EMPAKTOR GREEN, and 1 litre of EMPAKTOR BALANCE with 200 litres of non-chlorinated water and apply to a hectare.

20-25 days later:

Mix 1 litre of EMPAKTOR AMINO, 1 litres of EMPAKTOR GREEN, and 2 litre of EMPAKTOR BALANCE with 200 liters of non-chlorinated water and apply to a hectare.

UNDERGROUND SOIL CROPS (YAM-POTATO-CASSAVA- GROUNDNUTS ETC.)

15 days after planting:

Mix 1 litre of EMPAKTOR AMINO, 1 litre of EMPAKTOR GREEN, and 1 litre of EMPAKTOR BALANCE with 200 litres of non-chlorinated water and apply to a hectare.

15-20 days later:

Mix 1 litre of EMPAKTOR AMINO, 2 litres of EMPAKTOR GREEN, and 1 litre of EMPAKTOR BALANCE with 200 litres of non-chlorinated water and apply to a hectare.

20-25 days later:

Mix 2 litre of EMPAKTOR AMINO, 1 litres of EMPAKTOR GREEN, and 2 litre of EMPAKTOR BALANCE with 200 litres of non-chlorinated water and apply to a hectare.

BANANA

The period of the formation of sprouts:

Mix 1 litre of EMPAKTOR AMINO, 1 litre of EMPAKTOR GREEN, and 1 litre EMPAKTOR BALANCE with 200 litres of non-chlorinated water and apply to a hectare.

The period of prolonged sprouts/vegetative growth:

Mix 1 litre of EMPAKTOR AMINO, 2 litres of EMPAKTOR GREEN, and 1 litre of EMPAKTOR BALANCE with 200 litres of non-chlorinated water and apply to a hectare.

Fruit formation period:

Mix 1 litre of EMPAKTOR AMINO, 1 litre of EMPAKTOR GREEN, and 1 litre of EMPAKTOR BALANCE with 200 litres of non-chlorinated water and apply to a hectare.

Fruit ripening period:

Mix 1 litre of EMPAKTOR AMINO and 1 litre EMPAKTOR BALANCE with 200 litres of non-chlorinated water and apply to a hectare.

WATERMELON

15 days after planting:

Mix 1 litre of EMPAKTOR AMINO, 1 litres of EMPAKTOR GREEN, and 1 litre EMPAKTOR BALANCE with 200 litres of non-chlorinated water and apply to a hectare.

15-20 days later:

Mix 1 litre of EMPAKTOR AMINO, 2 litres of EMPAKTOR GREEN, and 1 litre of EMPAKTOR BALANCE with 200 litres of non-chlorinated water and apply to a hectare.

20-25 days later:

Mix 2 litre of EMPAKTOR AMINO, 1 litres of EMPAKTOR GREEN, and 2 litre of EMPAKTOR BALANCE with 200 litres of non-chlorinated water and apply to a hectare.

LEAFY VEGETABLES (BROCCOLI, CAULIFLOWER, SPINACH, CABBAGE, LEEK, LETTUCE, ONIONS)

Between 7-10 days:

Mix 2 litres of EMPAKTOR AMINO, 1 litre of EMPAKTOR GREEN, and 1 litre of EMPAKTOR BALANCE with with 200 liters of non-chlorinated water and apply to a hectare.

15 daya later:

Mix 1 litre of EMPAKTOR AMINO, 2 litres of EMPAKTOR GREEN, and 1 litre of EMPAKTOR BALANCE with 200 liters of non-chlorinated water and apply to a hectare.

15-20 days after 2nd application/15-25 days before harvest:

Mix 1 litre of EMPAKTOR AMINO, 1 litre of EMPAKTOR GREEN, and 2 litres of EMPAKTOR BALANCE with 200 liters of non-chlorinated water and apply to a hectare.

GREEN HUB GIDA TARIM DIŞ TİC.LTD.ŞTİ.
Mustafa Kemal Mah. 2137 Sk. No:5 İç Kapı No:5 Çankaya / ANKARA

FERTILIZER ANALYSIS REPORT

Type and Trade Name of Sample	EMPAKTOR AMINO PLANT-BASED ORGANIC LIQUID FERTILIZER
The date of receipt of test item	16.01.2025
Physical Appearance- Amount	Liquid - 1 Litre
Date of Test	16.01.2025/22.01.2025
Number of pages of the Report	3

NOTE:

The analysis was carried out by BSK Tarım Ürün.Hayv.Gıda San.ve Tic. Ltd.Şti., a laboratory testing agency located in Konya, Turkey.

BSK Tarım Ürün.Hayv.Gıda San.ve Tic. Ltd.Şti. is accredited by TURKAK under registration number (AB-1074-T) for (TS EN ISO /IEC 17025:2017) as test laboratory.

Turkish Accreditation Agency (TURKAK) is signatory to the European Co-Operation for Accreditation (EA) Multilateral Agreements (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.

The test and / or measurement results, conformity assessment (where applicable) and test methods are provided on the following pages, which are an integral part of this certificate.


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DIŞ TİC. LTD. ŞTİ.
Mustafa Kemal Mah. 2137 Sok. No: 5 Daire:
Çankaya / ANKARA 06530
MALTEPE V.D. 4110894874
Mersis No: 0411089487400001
Ticari Sicil No: 448345

GREEN HUB GIDA TARIM DIŞ TİC.LTD.ŞTİ.
Mustafa Kemal Mah. 2137 Sk. No:5 İç Kapı No:5 Çankaya / ANKARA

FERTILIZER ANALYSIS REPORT

ANALYSIS RESULT

Analysis Parameters	Unit	Analysis results	Methods	Evaluation
Organic Matter	%	31.3	Heated to a constant weight at 70 °C , then combusted at 550 °C, followed by division by the original weight	NONE
Organic Carbon	%	12.5	Walkley Back Method	NONE
Organic Nitrogen	%	2.2	Kjeldahl	NONE
Water-Soluble Potassium Oxide	%	3.5	GPGDY Annex 2 Article 4.1 EN 15477 ICP/AAS	NONE
Density	g/ml	-	Densitometer	NONE
pH		5.5	1/10 Potentiometric	NONE
Lead	ppm	0.09	TS EN 13650	NONE
Cadmiu	ppm	0.05	TS EN 13650	NONE
Copper	ppm	33.4	TS EN 13650	NONE
Nickel	ppm	4.25	TS EN 13650	NONE
Zinc	ppm	95.6	TS EN 13650	NONE
Mercur	ppm	0.01	EPA 3052	NONE
Chromium	ppm	5.08	TS EN 13650	NONE

Key:

-Methods with TS or EN indicate compliance with Turkish Standards (TS) or European Norms (EN).


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FERTILIZER ANALYSIS REPORT

ANALYSIS RESULT

Analysis Parameters	Unit	Methods	Analysis results	Evaluation
Aspartic Acid	g/100 g	Chromatographic	0.26	NONE
Glutamic Acid	g/100 g	Chromatographic	0.125	NONE
Serine	g/100 g	Chromatographic	0.079	NONE
Hindistine	g/100 g	Chromatographic	<0.009 ^{RL}	NONE
Glycine	g/100 g	Chromatographic	0.256	NONE
Threonine	g/100 g	Chromatographic	<0.009 ^{RL}	NONE
Citrulline	g/100 g	Chromatographic	0.088	NONE
Arginine	g/100 g	Chromatographic	0.056	NONE
Alanine	g/100 g	Chromatographic	0.089	NONE
Tyrosine	g/100 g	Chromatographic	0.952	NONE
Cystine	g/100 g	Chromatographic	0.074	NONE
Valine	g/100 g	Chromatographic	0.156	NONE
Methonine	g/100 g	Chromatographic	0.047	NONE
tyroptophan	g/100 g	Chromatographi	0.150	NONE
Norvaline	g/100 g	Chromatographic	<0.009 ^{RL}	NONE
Phenylalanine	g/100 g	Chromatographic	0.101	NONE
Isoleucine	g/100 g	Chromatographic	0.095	NONE
Leucine	g/100 g	Chromatographic	0.207	NONE
Lysine	g/100 g	Chromatographic	1.101	NONE
Hydroxyproline	g/100 g	Chromatographic	1.209	NONE
Proline	g/100 g	Chromatographic	<0.009 ^{RL}	NONE
Total Free Amino Acid	g/100 g	Chromatographic	5.05	NONE

Key:

-RL: Reporting Limit.

-Methods marked as "Chromatographic" imply the use of chromatographic techniques for analysis.


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FERTILIZER ANALYSIS REPORT

Type and Trade Name of Sample	EMPAKTOR BALANCE ORGANOMINERAL LIQUID FERTILIZER
The date of receipt of test item	16.01.2025
Physical Appearance- Amount	Liquid - 1 Lt
Date of Test	16.01.2025/22.01.2025
Number of pages of the Report	2

NOTE:

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FERTILIZER ANALYSIS REPORT

ANALYSIS RESULT

Analysis Parameters	Unit	Analysis results	Methods	Evaluation
Organic matter	%	23.7	Organic Carbon 2.24	NONE
Total Nitrogen	%	7.3	TS 2832 GPGDY Annex 2 Article 2.3	NONE
Organic Nitrogen	%	0.6	Kjeldahl	NONE
Ammonium Nitrogen	%	6.7	TS EN 15475 GPGDY Annex 2 Article 2.1	NONE
Total Phosphor Pentoxide (P ₂ O ₅)	%	7.8	Kacar-Log2009 Wet Ashing, EN 15959	NONE
Water-Soluble Phosphorus Pentoxide (P ₂ O ₅)	%	7.8	TS EN 15958-15959 GPGDY Annex 2 method 3.1.6 & Method 3.2	NONE
Water-Soluble Potassium Oxide (K ₂ O)	%	7.5	GPGDY Annex 2 Article 4.1EN 15477 ICP/AAS	NONE
Chlorine Content (Cl)	%	0.3	Potentiometric titration	NONE
Density	gr/ml	-	Densitometer	NONE
pH		4.9	1/10 Potentiometric	NONE
Lead	ppm	0.05	TS EN 13650	NONE
Copper (Cu)	ppm	22.1	TS EN 13650	NONE
Nickel (Ni)	ppm	3.52	TS EN 13650	NONE
Zinc (Zn)	ppm	76.6	TS EN 13650	NONE
Mercury (Hg)	ppm	0.01	EPA 3052	NONE
Chromium (Cr)	ppm	6.05	TS EN 13650	NONE

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FERTILIZER ANALYSIS REPORT

Type and Trade Name of Sample	EMPAKTOR GREEN ORGANOMINERAL LIQUID FERTILIZER
The date of receipt of test item	16.01.2025
Physical Appearance- Amount	Liquid - 1 Lt
Date of Test	16.01.2025/22.01.2025
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FERTILIZER ANALYSIS REPORT

ANALYSIS RESULT

Analysis Parameters	Unit	Analysis results	Methods	Evaluation
Organic Matter	%	27.8	Organic Carbon 2.24	NONE
Total Nitrogen	%	16.8	TS 2832 GPGDY Annex 2 Article 2.3	NONE
Organic Nitrogen	%	2.1	Kjeldahl	NONE
Ammonium Nitrogen	%	4.2	TS EN 15475 GPGDY Annex 2 Article 2.1	NONE
Nitrate Nitrogen	%	4.2	TS EN 15476 GPGDY Annex 2 Article 2.2.3	NONE
Urea Nitrogen	%	6.3	TS EN 15604 GPGDY Annex 2 Article 2.6.1	NONE
Chlorine Content (Cl)	%	0.6	Potentiometric Titration	NONE
Density	gr/ml	-	Densitometer	NONE
pH		5.6	1/10 Potentiometric	NONE
Lead (Pb)	ppm	0.08	TS EN 13650	NONE
Cadmium (Cd)	ppm	0.06	TS EN 13650	NONE
Copper (Cu)	ppm	35.9	TS EN 13650	NONE
Nickel (Ni)	ppm	6.04	TS EN 13650	NONE
Zinc (Zn)	ppm	121.3	TS EN 13650	NONE
Mercury (Hg)	ppm	0.01	EPA 3052	NONE
Chromium (Cr)	ppm	7.07	TS EN 13650	NONE

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FERTILIZER ANALYSIS REPORT

ANALİZ SONUCU / ANALYSIS RESULT

Analysis Parameters	Unit	Methods	Analysis results	Evaluation
Aspartic Acid	g/100 g	Chromatographic	0.18	NONE
Glutamic Acid	g/100 g	Chromatographic	0.166	NONE
Serine	g/100 g	Chromatographic	0.101	NONE
Hindistine	g/100 g	Chromatographic	<0.009 ^{RL}	NONE
Glycine	g/100 g	Chromatographic	0.241	NONE
Threonine	g/100 g	Chromatographic	<0.009 ^{RL}	NONE
Citrulline	g/100 g	Chromatographic	0.097	NONE
Arginine	g/100 g	Chromatographic	0.044	NONE
Alanine	g/100 g	Chromatographic	0.055	NONE
Tyrosine	g/100 g	Chromatographic	0.851	NONE
Cytine	g/100 g	Chromatographic	0.113	NONE
Valine	g/100 g	Chromatographic	0.123	NONE
Methonine	g/100 g	Chromatographic	0.057	NONE
Tryptophan	g/100 g	Chromatographic	0.182	NONE
Norvaline	g/100 g	Chromatographic	<0.009 ^{RL}	NONE
Phenylalanine	g/100 g	Chromatographic	0.154	NONE
Isoleucine	g/100 g	Chromatographic	0.101	NONE
Leucine	g/100 g	Chromatographic	0.259	NONE
Lysine	g/100 g	Chromatographic	0.587	NONE
Hydroxyproline	g/100 g	Chromatographic	1.077	NONE
Proline	g/100 g	Chromatographic	0.693	NONE
Total Free Amino Acids	g/100 g	Chromatographic	5.13	NONE

Key:

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