

Aminocore optimum

Product description

Aminocore optimum is a highly concentrated L- α -amino acid-based liquid product from enzymatic hydrolysis suitable for soil and foliar application. The product is specifically designed as an ingredient in fertilizer formulations.

Aminocore optimum can be applied to all types of crops: leaf vegetables, fruit vegetables, strawberries, stone fruit trees, pome fruit trees, citrus, olive trees, vines, tropical fruit trees, industrial crops, field crops, etc.

Dose:

Foliar: apply 2 to 4 sprays at 2-3 mL/L or 2-3 L/ha.

Soil/Substrate: apply 2-3 mL/L or 2-3 L/ha every 10 days / 4-5 times

In the event of significant stress, the dose can be increased.

Benefits:

- **Increases photosynthesis activity and chlorophyll content**
- **Increases plant stress resistance**
- **Improves fruit set and quality**
- **Improves efficiency of plant protection treatments**

Application time:

It is advisable to use it during periods when the crop needs a physiological stimulus, such as:

- Start of the plant's vegetative cycle, as soon as it has sufficient leaf mass
- Pre-flowering and petal-falling phase
- Fruit development

Aminocore optimum is also recommended when the crop is subjected to adverse conditions (drought, cold, salinity, wind, root asphyxia, etc.) and in treatments for plant recovery following critical periods (transplants, damage due to frost, hail, wind, etc.).

Datasheet

Composition

| | |
|------------------|-----------|
| Free amino acids | 20% (w/w) |
|------------------|-----------|

| | |
|-------------------|-----------|
| Total amino acids | 30% (w/w) |
|-------------------|-----------|

| | |
|--------------------|------------|
| Total nitrogen (N) | 5,3% (w/w) |
|--------------------|------------|

| | |
|----------------------|------------|
| Organic Nitrogen (N) | 5,3% (w/w) |
|----------------------|------------|

| | |
|--------------------|-----------|
| Organic Carbon (C) | 20% (w/w) |
|--------------------|-----------|

| | |
|-----|------------|
| Ash | 4,7% (w/w) |
|-----|------------|

| | |
|----------------|------------|
| Chlorides (CL) | 0,1% (w/w) |
|----------------|------------|

| | |
|----------------|-----------|
| Organic matter | 39% (w/w) |
|----------------|-----------|

| | |
|------------|-----|
| Dry matter | 45% |
|------------|-----|

| | |
|-----------------|------------------------|
| Specific weight | 1150 kg/m ³ |
|-----------------|------------------------|

| | |
|----|-----|
| pH | 5,8 |
|----|-----|

The product contains all biologically active free amino acids: ASP, SER, GLU, GLY, HIS, ARG, THR, ALA, PRO, CIS, TYR, VAL, MET, LYS, ILE, LEU, PHE, TRP



Free Amino Acid Profile

| L- α -amino acid | g/kg product |
|--|--------------|
| Alanine | 23,04 |
| Arginine | 3,15 |
| Aspartic Acid | 8,01 |
| Cystine | 0,23 |
| Glutamine | 15,84 |
| Glycine | 10,08 |
| Histidine | 6,75 |
| Hydroxyproline | 0,23 |
| Isoleucine | 11,61 |
| Leucine | 22,32 |
| Lysine | 20,00 |
| Methionine | 6,22 |
| Phenylalanine | 10,80 |
| Proline | 9,73 |
| Serine | 11,62 |
| Taurine | 1,35 |
| Threonine | 12,69 |
| Tryptophan | 2,75 |
| Tyrosine | 5,85 |
| Valine | 15,48 |
| Above mentioned figures are indicative | |

Packaging

IBC: 1000 l
CANNISTER: 20 l

Storage information

Product is stable when stored under normal undiluted conditions. The original product in the state in which it is delivered is hazard-free concerning the transmission of pathogens. Close package properly after the use, store in a frost-free place and avoid storage at direct sunlight! Shake well before use.

Distributed by



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Customer number : D05979

Sample characteristics

Sample number : M16007207001
 Date Sample recieved : 29-4-2016
 Productname : Aminocore optimum
 External code : 1
 Product code customer : F0069
 Additional info : Cas nr 100085-61-8
 Sampling date : 19-4-2016

| Parameter | Method | Result | Unit |
|------------------------------|----------------|--------|------|
| Moisture 103°C (4 hrs, sand) | ANAL-10032 Q G | 519 | g/kg |
| Crude Protein (N = 6,25) | ANAL-10005 Q G | 365 | g/kg |
| Crude Ash (550°C) | ANAL-10028 Q G | 52 | g/kg |
| Organic matter | ANAL-10153 | 428 | g/kg |
| Amino acids | | | |
| Alanine | ANAL-10018 Q G | 30,9 | g/kg |
| Arginine | ANAL-10018 Q G | 9,5 | g/kg |
| Aspartic acid | ANAL-10018 Q G | 19,7 | g/kg |
| Cysteine | ANAL-10018 Q G | 3,5 | g/kg |
| Glutamic acid | ANAL-10018 Q G | 41,9 | g/kg |
| Glycine | ANAL-10018 Q G | 26,0 | g/kg |
| Histidine | ANAL-10018 Q G | 9,2 | g/kg |
| Hydroxyproline | ANAL-10018 Q G | 5,6 | g/kg |
| iso-Leucine | ANAL-10018 Q G | 16,2 | g/kg |
| Leucine | ANAL-10018 Q G | 30,7 | g/kg |
| Lysine | ANAL-10018 Q G | 31,0 | g/kg |
| Methionine | ANAL-10018 Q G | 8,6 | g/kg |
| Phenylalanine | ANAL-10018 Q G | 15,5 | g/kg |
| Proline | ANAL-10018 Q G | 21,0 | g/kg |
| Serine | ANAL-10018 Q G | 16,2 | g/kg |
| Threonine | ANAL-10018 Q G | 18,4 | g/kg |
| Tyrosine | ANAL-10018 Q G | 8,7 | g/kg |
| Valine | ANAL-10018 Q G | 22,2 | g/kg |
| Tryptophan | ANAL-10017 Q G | 4,08 | g/kg |
| free Amino acids | | | |
| free Alanine | ANAL-10019 Q G | 25,6 | g/kg |
| free Arginine | ANAL-10019 Q G | 3,5 | g/kg |
| free Asparatic acid | ANAL-10019 Q G | 8,9 | g/kg |
| free Cysteine | ANAL-10019 Q G | 0,5 | g/kg |
| free Glutamic acid | ANAL-10019 Q G | 17,6 | g/kg |
| free Glycine | ANAL-10019 Q G | 12,6 | g/kg |

Q = accredited by RvA (certificate L053), (Q' by given certificate number), G = certified according to GMP+, QS = approved by QS, Extern = subcontracted.
 * = indicative value. ** = analyses not started within required time frame. *** = micro organisms present. **** = sample date missing

The analysis is performed in the period between the date of sample receipt at NutriControl and the date of reporting. Microbiological analysis of perishable products is started within 24 hours of samples receipt, unless otherwise stated. The analytical results are valid for the delivered sample material only. Information about measurement uncertainty can be delivered on request. General terms and conditions apply to all services and the supply of goods and products. These can be found on www.nutricontrol.nl.
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| | | | | |
|--|------------|--------|--------------|-------|
| free Histidine | ANAL-10019 | Q G | 7,5 | g/kg |
| free Hydroxyproline | ANAL-10019 | Q G | 0,5 | g/kg |
| free iso-Leucine | ANAL-10019 | Q G | 12,9 | g/kg |
| free Leucine | ANAL-10019 | Q G | 24,8 | g/kg |
| free Lysine | ANAL-10019 | Q G | 22,0 | g/kg |
| free Methionine | ANAL-10019 | Q G | 6,8 | g/kg |
| free Phenylalanine | ANAL-10019 | Q G | 12,0 | g/kg |
| free Proline | ANAL-10019 | Q G | 10,7 | g/kg |
| free Serine | ANAL-10019 | Q G | 12,8 | g/kg |
| free Taurine | ANAL-10019 | Q G | 1,5 | g/kg |
| free Threonine | ANAL-10019 | Q G | 14,1 | g/kg |
| free Tyrosine | ANAL-10019 | Q G | 6,5 | g/kg |
| free Valine | ANAL-10019 | Q G | 17,2 | g/kg |
| free Tryptophan | ANAL-10017 | Q G | 3,06 | g/kg |
| Sodium | ANAL-10040 | Q G | 14,9 | g/kg |
| Chloride | ANAL-10008 | Q G | 0,6 | g/kg |
| Arsenic (As) | ANAL-10222 | Q G QS | <1,000 | mg/kg |
| Cadmium (Cd) | ANAL-10222 | Q G QS | <0,100 | mg/kg |
| Mercury | ANAL-10222 | Q G QS | <0,100 | mg/kg |
| Lead | ANAL-10222 | Q G QS | <2,000 | mg/kg |
| TOC (Total Organic Carbon) | External | | 23 | % |
| Enterobacteriaceae plate count (no confirmation) | ANAL-10215 | Q G | <10 | CFU/g |
| Enterococccen plate count | External | | < 10 | CFU/g |
| Escherichia coli | ANAL-10167 | | not detected | /25 g |
| Salmonella (PCR) | ANAL-10208 | Q G | not detected | /25 g |

Sample comment

The sample provided has been divided in 2 subsamples for the purpose of microbiological aswell as chemical analyses. The dividing may influence the reliability of the test results.

Veghel, 10 mei 2016



Manager Analytical Services
H.J.M. Lamers

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