



***Harness The Novel Power Of
Targeted Plant Extracts With
OMEX® EBA Technology!***



LIFEOMEX® 4-4-4 HELPS CROPS SURVIVE AND THRIVE THROUGH STRESS.

More Than Complete Fertilizer! ♦

The OMEX® proprietary Enhanced Bioavailability (EBA) technology provides optimization of applied crop nutrition. Blended with targeted and synergistic plant extracts, LifeOmex® 4-4-4 provides quality, available nutrition while engaging multiple modes of action in stress defense.

Rates and Timing ♦

Cell Power® LifeOmex® 4-4-4 is a foliar and soil applied fertilizer, containing the essential plant nutrients nitrogen, phosphorus, and potassium.

Foliar Applications: Apply to plant foliage at a rate of 1-4 pints/acre every 7-14 days throughout the growing season in spray volume sufficient to ensure thorough coverage of the leaf tissue.

Fertigation: Apply to root zone at a rate of 1-4 pints/acre every 7-14 days throughout the growing season. May be applied through various irrigation systems, including but not limited to: furrow, side-roll, center pivot, linear, drip, and micro-irrigation systems.

LifeOmex® 4-4-4 with EBA Technology

Analysis: 4-4-4

Density: 9.19 lbs/gallon

Packaging: 2.5 gallon & 265 gallon mini-bulk

LifeOmex® Trials Demonstrated:

- Improved tolerance and recovery from environmental stress
- Enhanced nutrient status
- Quality yield



Beat the Heat

Do you struggle to combat heat and drought stress? Environmental stresses are one of the most limiting factors in crop production. High heat and drought reduce yield in multiple ways. They reduce stomatal conductance because plants respond to high heat by closing stomata to reduce water loss. With stomata closed, less CO₂ is able to enter the plant to drive photosynthesis, so energy and growth is reduced. In addition, reactive oxygen species (ROS) increase, which can damage plant cells. LifeOmex™ is designed with key nutrients, plant extracts, and advanced EBA technology to help your crop thrive under tough conditions. This state-of-the-art technology combats stress with multiple modes of action. From balanced fertility to extracts from desert plants to organic acids and ending with the OMEX® proprietary Enhanced Bioavailability (EBA) technology, LifeOmex® 4-4-4 has been proven to improve crop tolerance to stress and quench damaging reactive oxygen.

Proper Nutrition = Healthier Plant

Quality nutrients inside LifeOmex® 4-4-4 are specifically designed to help crops tolerate tough conditions. Specifically, potassium, is a key part of stomatal opening and closing. It also plays a critical role in healthy flowering. Adequate phosphorus allows the crop to grow robust root systems that help crops make the best use of available water and nutrients. Fatty acids found in the OMEX® proprietary EBA technology not only improve absorption and uptake of nutrients and other ingredients — they also are a source of energy, strengthen the cuticle, and can even contribute to the crops ability to mount its innate defense mechanisms.

Multiple Modes of Stress Resistance

Key extracts from desert plants that contain saponins, antioxidants, and other bioactive



components support plants in dealing with excessive heat, drought, UV levels, and salt. If plants are exposed to excessive heat and UV light, their natural defense systems start to become overwhelmed. That's when the plant-protection agents in LifeOmex® 4-4-4 can make a big difference by providing powerful antioxidants that protect delicate cell membranes from damaging free radicals. Some of the antioxidants have a direct, protective effect on plants while also encouraging plants to manufacture more of their own natural plant-protection agents. The natural saponins also can act as a natural surfactant in the soil for better water penetration and management.

Concentrated Organic Acids

LifeOmex® 4-4-4 contains concentrated organic acids. Organic acids help plants make higher levels of proline, sugars, and antioxidants that help crops tolerate environmental stress. Organic acids also act as a carbon source to enhance soil microbial activity and chelate nutrients to improve uptake.

1. Canellas, L.P., Canellas, N.O.A., da S. Irineu, L.E.S. et al. Plant chemical priming by humic acids. *Chem. Biol. Technol. Agric.* 7, 12 (2020). <https://doi.org/10.1186/s40538-020-00178-4>.

2. Khan, Naeem & Ali, Shahid & Zandi, Peiman & Mehmood, Asif & Ullah, Shariat & Ikram, Muhammad & Ismail, Ismail & Shahid, Muhammad & Babar, Md. (2020). Role of sugars, amino acids and organic acids in improving plant abiotic stress tolerance. *Pakistan Journal of Botany*. 52. 10.30848/PJB2020-2(24).

3. Mirco, B., Babic, L., and Zhang, B. (2017). Saponin-Based, Biological Active Surfactants from Plants. *Intec Open Book Series*, London, United Kingdom.

4. Tuteja, Narendra, Mahajan, Shilpi. (2007). Calcium Signaling Network in Plants. *Plant Signal Behav.* 79–85. 2(2).