



EM-1 INGREDIENTS

EM-1ingredients (U.S. version as of May 2010) EM-1 is OMRI Listed (Organic Materials Review Institute), omri.org, and can be used by certified organic operations.

ACTIVE INGREDIENTS:

Microorganisms: 1 million colony forming units/cc (units/ml), 1%: Lactobacillus plantarum, Lactobacillus casei, Lactobacillus fermentum, Lactobacillus delbrueckii, Bacillus subtilis, Saccharomyces cerevisiae, Rhodopseudomonas palustris.

IN-ACTIVE INGREDIENTS:

- 96% Water and 3% Molasses
- L. plantarum Lactic Acid Bacteria in saliva (first isolated); liquefies gelatin [foods found in: sauerkraut, pickles, brined olives, kimchi, Nigerian ogi, sourdough, cheeses, fermented sausages, stockfish]
- L. casei in human intestine and mouth; known to improve digestion and reduce lactose deficiency and constipation; complements growth of L. acidophilus [foods found in: cheddar cheese, green olives]
- L. fermentum [foods found in: sourdough]
- L. delbrueckii [foods found in: yogurt, mozzarella cheese, pizza cheese, Hartkäse, Berg-Alpkäse, Bleu de Bresse, Bleu de Gex, Fourme d'Ambert]
- Bacillus subtilis commonly found in soil; can survive extreme
 heat; natural fungicidal activity; used in alternative medicine; can
 convert explosives into harmless compounds; used in safe radionuclide waste; produces amylase enzyme (present in saliva; breaks
 down starch into sugar) [foods found in: Japanese natto (fermented soy beans), Korean cheonggukjang (fermented soybean paste)]
- Saccharomyces cerevisiae Yeast brewing and baking, top-fermenting yeast (ale) [in foods: baked breads, coffeecakes, pastries, croissants] [in beverages: beer, wine, mead, cider, vinegar]
- Rhodopseudomonas palustris Phototrophic Bacteria naturally found in soil and water, a food source for small organisms (zooplanktons, small crustacea); a natural detoxifier; degrades odors in agricultural and industrial waste; stimulates growth of actinomycetes (white mold) which suppresses the growth of pathogenic fungi, improves soil structure, humus formation, helps soil retain water, and breaks down tough plant materials; benefits growth of certain crops and fruits; also found in earthworm droppings, swine waste lagoons, marine coastal sediments, pond water. [foods found in: Swiss cheese]

ref : GoodMicrobes.org 9/28/2010 RE: EM-1 Bioremediation Experiments
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