

Driven by nature. Backed by science.

TECHNICAL DATA SHEET

4-4-4

Large grade SGN 250 · Fine grade SGN 110

Sigma 4-4-4 Bio

Balanced organic fertilizer for growers

Our most popular blend: a balanced 4-4-4 with calcium, iron, humic acids and the full Sigma biology. The granular base of Sigma crop programs, from bed prep to orchard and pasture.

Guaranteed analysis

Total nitrogen (N)	4.0%
Ammoniacal nitrogen	0.2%
Other water-soluble nitrogen	0.6%
Water-insoluble nitrogen	3.2%
Available phosphate (P_2O_5)	4.0%
Soluble potash (K_2O)	4.0%
Calcium (Ca)	6.0%
Iron (Fe)	0.1%

Derived from processed poultry manure, bone meal, feather meal and sulfate of potash. *3.2% slowly available water insoluble Nitrogen (N) from processed poultry manure, bone meal and feather meal.

Biology and carbon

Humic acids	3.0%
Beneficial bacteria	2,800,000 CFU / lb
Endomycorrhizae	6.1 propagules / lb
Trichoderma	480,000 CFU / lb

GranCORE granule

Powder granulated into a true round granule with a molasses / lignin sulfonate binder: consistent bulk density and spread. Every prill is individually inoculated with Sigma Bio. OMRI-listed organic inputs.

Where it fits

- Bed prep and pre-plant for vegetables
- At planting and transplant: per-plant rates in the hole
- Orchards, vineyards and berries: dormant and post-harvest feeding
- Pasture and hay: spring green-up
- Potting, field and raised-bed mixes

Crop program rates

CROP	SIGMA RATE
Tomatoes, peppers, cucumbers, melons	80 g per plant · 2,500 lb / acre / yr
Carrots, onions, celery, asparagus	60 g per plant · 2,000 lb / acre / yr
Cole crops, lettuce, spinach	5,000 lb / acre / yr in 3 splits (1,500 · 1,750 · 1,750)
Blueberries	Yr 1: 1,000 lb / acre · Yr 2+: 2,420 lb / acre
Fruit and nut trees	2 to 4 lb per tree, 2 to 3 times a year
Pasture and grass forage	2,000 lb / acre / yr
Soil and bed mixes	56 lb per cubic yard of mix

Product per acre by nitrogen target

NITROGEN TARGET	SIGMA 4-4-4 BIO
40 lb N / acre	1,000 lb / acre
100 lb N / acre	2,500 lb / acre
150 lb N / acre	3,750 lb / acre
200 lb N / acre	5,000 lb / acre

Packaging: 50 lb poly bag (22.68 kg) · 2,000 lb tote (907 kg) · bulk load.
Application: Broadcast and incorporate before planting, band at planting, or side-dress in season; blend into potting and bed mixes. Store dry.

Values from the product label. Crop rates are starting points; set rates per field from soil and tissue tests. Always read and follow the product label; confirm state registration.