

LIVESTOCK

Vitamins & Minerals

Listings for Livestock Nutrients by Source

This appendix represents OMRI's policy for listing sources of livestock vitamins and minerals. OMRI's policy is based on the NOP rule § 205.237(a), which allows the use of nonsynthetic feed additives and supplements as well as those that are permitted by the National List. NOP Rule § 205.603(d)(1-2) permits "trace minerals / vitamins used for enrichment or fortification when FDA approved." Forms of vitamins and minerals listed here include those regulated by FDA as listed in 21 CFR 582 (Subpart F, Nutrients and/or Dietary Supplements) and 21 CFR 573, as well as those included in §57, Mineral Products, and §90, Vitamins of the Association of American Feed Control Officials (AAFCO) *Official Publication*.

OMRI considers use of all livestock vitamins and minerals to be Restricted by § 205.237(b)(2) of the NOP Rule, which states that "the producer of an organic operation must not provide feed supplements or additives in amounts above those needed for adequate nutrition and health maintenance for the species at its specific stage of life."

Some sources of vitamins may be unacceptable either by interpretation of the NOP or under different standards. OMRI has identified forms that may be obtained from animal slaughter by-products, which are prohibited for feeding ruminants and poultry under NOP Rule § 205.237(b)(5). Some vitamin and mineral products may also contain products obtained from genetically modified organisms prohibited as 'excluded methods' by the NOP Rule at § 205.105(e). Because of the development and commercialization of new products and/or changes in regulatory status, the table below may not be complete and is subject to change.

Calcium

Bone ash AAFCO: 57.1 Animal slaughter by-products.	Prohibited FDA: n/a
Bone charcoal AAFCO: 57.2 Animal slaughter by-products.	Prohibited FDA: n/a
Bone charcoal, spent AAFCO: 57.17 Animal slaughter by-products.	Prohibited FDA: n/a
Bone meal, cooked AAFCO: 57.141 Animal slaughter by-products.	Prohibited FDA: n/a

Bone meal, steamed AAFCO: 57.18 Animal slaughter by-products.	Prohibited FDA: n/a
Bone phosphate AAFCO: 57.14 Animal slaughter by-products.	Prohibited FDA: n/a
Calcite AAFCO: 57.3	Restricted FDA: n/a
Calcium carbonate AAFCO: 57.10	Restricted FDA: 582.5191
Calcium carbonate precipitated AAFCO: 57.7	Restricted FDA: n/a
Calcium chloride AAFCO: 57.51	Restricted FDA: 582.1191
Calcium citrate AAFCO: n/a	Restricted FDA: 582.5195
Calcium formate AAFCO: 57.152 Withdrawn from AAFCO. Calcium formate is currently considered an unapproved food additive and an food additive petition must be approved prior to its use in feeds.	Prohibited FDA: n/a
Calcium gluconate AAFCO: 57.52	Restricted FDA: 582.1199
Calcium glycerophosphate AAFCO: 57.52	Restricted FDA: 582.5201
Calcium hydroxide AAFCO: 57.53	Restricted FDA: 582.1205
Calcium iodate AAFCO: 57.54	Restricted FDA: 582.80
Calcium iodobenenate AAFCO: 57.55	Restricted FDA: n/a
Calcium lactate AAFCO: n/a	Restricted FDA: 582.1207
Calcium oxide AAFCO: 57.56	Restricted FDA: 582.5210
Calcium periodate AAFCO: 57.25	Restricted FDA: n/a
Calcium phosphate AAFCO: 57.134	Restricted FDA: 582.5217
Calcium pyrophosphate AAFCO: n/a	Restricted FDA: 582.5223
Calcium sulfate AAFCO: 57.57	Restricted FDA: 582.5230
Chalk, precipitated AAFCO: 57.8	Restricted FDA: n/a

AAFCO: Refers to the Association of American Feed Control Officials (AAFCO) *Official Publication*

FDA: Food and Drug Administration rules at 21 CFR 582 and 573

Chalk, rock AAFCO: 57.6	Restricted FDA: n/a	Cobalt glucoheptanate AAFCO: 57.148	Restricted FDA: n/a
Clam shells, ground AAFCO: 57.131	Restricted FDA: n/a	Cobalt gluconate AAFCO: 57.147	Restricted FDA: n/a
Dicalcium phosphate AAFCO: 57.71	Restricted FDA: 582.5217	Cobalt oxide AAFCO: 57.60	Restricted FDA: 582.80
Gypsiferous shale AAFCO: 57.30	Restricted FDA: n/a	Cobalt proteinate AAFCO: 57.23 Nonorganic protein must not be derived from excluded methods (GMOs) or slaughter by-products.	Restricted FDA: n/a
Limestone – Magnesium or Dolomitic AAFCO: 57.11	Restricted FDA: n/a	Cobalt sulfate AAFCO: 57.62	Restricted FDA: 582.80
Limestone, ground AAFCO: 57.9	Restricted FDA: n/a	<hr/>	
Monocalcium phosphate AAFCO: 57.98	Restricted FDA: 582.5217	Copper	
Oyster shell flour AAFCO: 57.4	Restricted FDA: n/a	Copper acetate monohydrate AAFCO: 57.153	Restricted FDA: n/a
Phosphate rock, ground AAFCO: 57.20	Restricted FDA: n/a	Copper amino acid chelate AAFCO: 57.142	Restricted FDA: n/a
Phosphate rock, ground, low fluorine AAFCO: 57.21	Restricted FDA: n/a	Copper carbonate AAFCO: 57.63	Restricted FDA: 582.80
Phosphate rock, soft AAFCO: 57.15	Restricted FDA: n/a	Copper chloride AAFCO: 57.64	Restricted FDA: 582.80
Shell flour AAFCO: 57.5	Restricted FDA: n/a	Copper choline citrate complex AAFCO: 57.122	Restricted FDA: n/a
Tricalcium phosphate AAFCO: 57.113	Restricted FDA: 582.5217	Copper citrate AAFCO: 57.158	Restricted FDA: n/a
<hr/>		Copper gluconate AAFCO: 57.65	Restricted FDA: 582.80, 582.5260
Chromium		Copper hydroxide AAFCO: 57.66	Restricted FDA: 582.80
Chromium tripiconline AAFCO: 57.155	Restricted FDA: n/a	Copper lysine complex AAFCO: 57.151	Restricted FDA: n/a
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Cobalt		Copper oxide AAFCO: 57.68	Restricted FDA: 582.80
Cobalt acetate AAFCO: 57.58	Restricted FDA: 582.80	Copper polysaccharide complex AAFCO: 57.29	Restricted FDA: n/a
Cobalt amino acid chelate AAFCO: 57.142	Restricted FDA: n/a	Copper proteinate AAFCO: 57.23 Nonorganic protein must not be derived from excluded methods (GMOs) or slaughter by-products.	Restricted FDA: n/a
Cobalt amino acid complex AAFCO: 57.150	Restricted FDA: n/a	Copper pyrophosphate AAFCO: n/a	Restricted FDA: 582.80
Cobalt carbonate AAFCO: 57.59	Restricted FDA: 582.80		
Cobalt chloride AAFCO: 57.60	Restricted FDA: 582.80		
Cobalt choline citrate complex AAFCO: 57.123	Restricted FDA: n/a		