
Teagasc Directory of Silage Additives, 2004.



AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY

Teagasc directory of silage additives, 2004.

Products in the 2004 directory are divided into six groups; (1) Acid based; (2) sugar based; (3) enzymes; (4) enzyme/salt mixtures; (5) salts and (6) inoculants.

The details on composition and application rates were supplied to Teagasc by the manufacturers/distributors and were not

independently verified by Teagasc. With such a large number of products available, farmers are strongly advised to consult their Teagasc adviser before deciding on a product.

Application rate

The correct application rate appropriate to the ensiling conditions is very important. Wet weather greatly increases

the weight of fresh grass at harvesting. Since the rate of application is given per tonne of grass, it is vital that rates take account of moisture content at harvesting. The application rate shown on the directory is that given by the manufacturers

Teagasc advisers may recommend different rates for specific ensiling conditions.

Acid Based Additives

Product	Manufacturer/Distributor	Stated Composition	Manufacturers Application Rate	Cost/Tonne Ensiled
ADD-F	Trouw Nutrition UK Ltd., 36 Ship Street, Belfast BT15 1JL Phone: 0044 1232 748233	Formic Acid 85%	2.3 litres per tonne	€1.90 at 2.3 litre rate
ADD SAFER	Trouw Nutrition UK Ltd., 36 Ship Street, Belfast BT15 1JL Phone: 0044 1232 748233	85% Ammonium Tetraformate salt	2.5 Liters per tonne	€2.30 at 2.5 litre rate
BROEISTOP	Future Farming Products Ltd., Nurney, Carbury. Co.Kildare Phone: 087 295 6797	Ammonium Propionate (Propionic Acid)	Dilute 5:1, Apply 1 litre per tonne	€1.59

Product	Manufacturer/Distributor	Stated Composition	Manufacturers Application Rate	Cost/Tonne Ensiled
CHEMSIL PLUS	Univar Ltd., Sfadco Ind. Est., Herbertstown, Co. Limerick. Phone 061-385211	Sulphuric Acid 45%	2.3 litres per tonne	€1.00 at 2.3 litre rate
COSIL-D	Nutribio Ltd., Tivoli Industrial Estate, Cork. Phone: 021-4507303	Sulphuric Acid 60%	2.0-3.5 litres per tonne	€1.10 at 2.5 litre rate
FORMIC ACID 85%	Univar Ltd., Sfadco Ind. Est., Herbertstown, Co. Limerick. Phone 061-385211	Formic Acid 85%	2.3 litres per tonne	N/A

Comments: Sulphuric acid additives should contain copper, which is included to avoid depleting the copper status in the liver of cattle being fed sulphuric acid treated silage.

Sugar Based Additives

Product	Manufacturer/Distributor/Enzymes	Stated Composition	Manufacturers Application Rate	Cost/Tonne Ensiled
MOLASSED SUGAR BEET PULP	Greenvale Animal Feeds, Dr. Cullen Park Road, Carlow. Phone: 0503-31400	89% DM 24% Sugar 12 kg Sugar/50 kg	50 kg per tonne	€9.50
PREMIER MOLASSES	Premier Molasses Co. Ltd., Harbour Rd., Foynes, Co. Limerick, Phone: 069-65311	73% DM 46% Sugar 2.9kg Sugar per 4.5 litres	9-18 litres (2-4 gallons) per tonne	€1.60 at 9 litre rate

Enzymes

Product	Manufacturer/Distributor	Stated Composition	Manufacturers Application Rate	Cost/Tonne Ensiled
CLAMPZYME	JG Chemicals Ltd Skule Hill, Fedamore, Co. Limerick Phone: 061-390045	Heni-cellulase and cellulase enzymes	500g/tonne	€1.50

Enzyme/Salt

Product	Manufacturer/Distributor	Stated Composition	Manufacturers Application Rate	Cost/Tonne Ensiled
SILO GUARD II	Slaney Agricultural Supplies, Ballyeden, Camolin, Co. Wexford. Phone: 054-83227	Sulphur and Sulphite Compounds Amylase enzymes	500g/tonne grass 250g/tonne maize Liquid: 0.5 litre/tonne grass 0.25 litre/tonne maize	€2.60 Grass €1.30 Maize

Salts

Product	Manufacturer/Distributor	Stated Composition	Manufacturers Application Rate	Cost/Tonne Ensiled
REGULATOR	ABN., 160 Moira Road, Lisburn, Co. Antrim BT281JB Phone: 0044 2892 662611	Sulphite Salts	Liquid: 200 ml/tonne diluted to 2 litres per tonne Granular: 250 g/tonne	€1.50 €1.72

Inoculants

Product	Manufacturer/Distributor	Stated Composition	Manufacturers Application Rate	Cost/Tonne Ensiled
ADVANCE	Provita Eurotech Ltd 21 Bankmore Road, Omagh Co. Tyrone, BT79 OEU Phone: 00 44 28 8225 2352	Lactobacillus plantarum Pediococcus pentosaceus Enterococcus faecium; cellulase hemicellulase; amylase; dextrose	Granular: 400g per tonne Liquid 2 litres per tonne	€1.25
AGROS CLAMP	Volac Feeds Ltd., Church St., Killeshandra, Co. Cavan. Phone: 049-4334755	Lactobacillus plantarum Cellulase, Hemicellulase	Liquid: 2 litres/tonne Powder: 400 g/tonne	€1.25 €1.25
AGROS HI DRI	Volac Feeds Ltd., Church St., Killeshandra, Co. Cavan. Phone: 049-4334755	Lactobacillus plantarum Allicin, Cellulase, Hemicellulase	Liquid: 2 litres/tonne Granular: 400g/tonne	€1.40 €1.40
BACTENSIL 2000 PLUS	Co-operative Animal Health Ltd., Tullow, Co. Carlow. Phone: 0503-51251	Lactobacillus plantarum Lactobacillus casei-rhamnosus Pediococcus pentosaceus Cellulase, Amylase Hemicellulase Pectinase	750g pack for 50 tonnes of grass (water soluble) Dry: 0.5 kg per tonne	€1.65 €1.84
BIO FERM GOLD	Britmilk, Ballantrae Hse., Woodside Rd., Collin, Dumfriesshire, DG1 4PT, Scotland. Phone: 0044-1387-750459	Lactobacillus plantarum Pediococcus spp. Streptococcus faecium Streptococcus lactis, Enzymes.	400 g granular per tonne 2 litres liquid per tonne	€2.15 €2.15
BIOHAY	Forage Systems No.1 Sunbury Close, Kilcullen, Co. Kildare. Phone: 045-481719	Lactobacillus buchneri (40788)	4L per tonne	N/A
BIO LIVE	Britmilk, Ballantrae Hse., Woodside Rd., Collin, Dumfriesshire, DG1 4PT, Scotland. Phone: 0044-1387-750459	Streptococcus faecium Pediococcus species Lactobacillus plantarum Streptococcus lactis	Liquid: 2 litres per tonne	€1.38

Inoculants (Cont'd)

Product	Manufacturer/Distributor	Stated Composition	Manufacturers Application Rate	Cost/Tonne Ensiled
BIOMAX®	Chr. Hansen Ireland Ltd. Rohan Industrial Estate, Little Island, Co. Cork Phone: 021 451 7503	Lactobacillus plantarum Pediococcus pentosaceus	Liquid: 60g in 40 Litres of water Apply at 2 Litres Per Tonne Dry: 200g per tonne	€2.34 €2.46
BIOMAX® 5 (Maize & Wholecrop)	Chr. Hansen Ireland Ltd. Rohan Industrial Estate, Little Island, Co. Cork Phone: 021 451 7503 Agway Milling Limited. Dosco Ind. Estate South Douglas Road, Cork Phone: 021 489 2266	Lactobacillus plantarum (PA-28) Lactobacillus plantarum (K-270)	Liquid: 50g in 100 Litres of water. Apply at 2 litres per tonne maize Dry: 200g per tonne maize	€1.52 €1.65
BIOMAX® SI	Chr. Hansen Ireland Ltd. Rohan Industrial Estate, Little Island, Co. Cork Phone: 021 451 7503	Lactobacillus plantarum	Liquid: 100 g/50 litres of water, apply at 2 litres/tonne Dry: 200 g per tonne	€1.52 €1.65
BIO-SIL	Hans Kerkhof Drachtsterweg 3, 9001 BD Grou, The Netherlands	Lactic Acid bacteria DSM 8862 DSM 8866	1 g per tonne	€1.05
BIO-SILE	Macroon Mills, Macroon, Co. Cork 026 41111	Lactobacillus plantarum Pediococcus acidilactici Streptococcus faecium Cellulase, Hemicellulase Amylase, Xylamase	0.5kg per tonne (granular)	€1.52
BIOTAL AXCOOL	Forage Systems No.1 Sunbury Close Kilcullen, Co. Kildare Phone: 045 481719	Lactobacillus buchneri NCIMB 40788 Hydrolytic enzymes	Liquid: 4.0 litres per tonne	N/A
BIOTAL AXPHAST PROFILE II	Forage Systems No.1 Sunbury Close Kilcullen, Co. Kildare Phone: 045 481719	Pediococcus pentosaceus NCIMB 12455 Lactobacillus plantarum NCIMB 12422 Propionibacterium jensenii NCIMB 30081 Hydrolytic enzymes	2 litres per tonne pre-mix	N/A

Product	Manufacturer/Distributor	Stated Composition	Manufacturers Application Rate	Cost/Tonne Ensiled
BIOTAL GOLDSTORE MAIZE	Forage Systems No.1 Sunbury Close Kilcullen, Co. Kildare Phone: 045 481719	Pediococcus pentosaceus NCIMB 12455 Propionibacterium jensenii NCIMB 30081 Hydrolytic enzymes	2.0 litres per tonne (premix)	N/A
BIOTAL MAIZECOOL	Forage Systems No.1 Sunbury Close Kilcullen, Co. Kildare Phone: 045 481719	Lactobacillus buchneri, NCIMB 40788 Hydrolytic enzymes	4 Litres per tonne (Premix)	N/A
BIOTAL SOLO	Forage Systems No.1 Sunbury Close Kilcullen, Co. Kildare Phone: 045 481719	Pediococcus pentosaceus NCIMB 12455 Hydrolytic enzymes	2.0 Litres per tonne (liquid)	N/A
BIOTAL TOP TREAT BIO STABLE BIOTAL SOLO MAIZE	Forage Systems No.1 Sunbury Close Kilcullen, Co. Kildare Phone: 045 481719	Lactobacillus buchneri NCIMB 40788	1 litre per sq metre (top treatment)	N/A
			4 litres per tonne (Bio Stable) 2 liters per tonne (Solo Maize)	N/A N/A
BIOTAL SUPERSILE GOLD	Forage Systems No.1 Sunbury Close Kilcullen, Co. Kildare Phone: 045 481719	Pediococcus pentosaceus NCIMB 12455 Lactobacillus plantarum NCIMB 12422 Hydrolytic enzymes	2.0 litres per tonne (pre-mix) (Liquid) 0.4 Kg/tonne (Granular)	N/A
BIOTAL WHOLECROP GOLD	Forage Systems No.1 Sunbury Close Kilcullen, Co. Kildare Phone: 045 481719	Lactobacillus buchneri NCIMB 40788 Hydrolytic enzymes	4.0 litres per tonne (liquid)	N/A
BIOTAL WHOLECROP LEGUME	Forage Systems No.1 Sunbury Close Kilcullen, Co. Kildare Phone: 045 481719	Lactobacillus buchneri NCIMB 40788 Pediococcus pentosaceus NCIMB 12455 Lactobacillus plantarum NCIMB 12422 Hydrolytic enzymes	4 litres per tonne (premix)	N/A
CONSERVE	ABN Ireland Ltd. 160 Moira Road, Lisburn, Co. Antrim, BT28 1JB Phone: 00 44 2892 662611	Lactobacillus plantarum Pediococcus pentoseaceus	Granular: 400g per tonne Liquid: 2L per tonne	€1.50 €1.35

Inoculants (Cont'd)

Product	Manufacturer/Distributor	Stated Composition	Manufacturers Application Rate	Cost/Tonne Ensiled
COOL-STORE XL (High DM grass wholecrop and maize)	Britmilk Ballantrae Hse., Woodside Rd., Collin, Dumfriesshire, DG1 4PT, Scotland Phone: 0044-1387-750459	Potassium sorbate Sodium benzoate, Sodium sulphite Lactic acid bacteria Bacillus spp. Enzymes	Liquid: 2-4L/per tonne Granular: 500-1000g/per tonne	€2.95 to €4.15 €2.95 to €4.15
CRIMP SILE 500 (Crimped grain maize, wholecrop)	Spillanes Consultancy & Agri Ltd. Halfway House, Dunmore Road, Waterford. Phone: 051-877076	Anhydrous dextrose Silicon dioxide Pediococcus spp. Lactobacillus plantarum Enterococcus spp. Aspergillus niger Bacillus spp.	0.5kg per tonne of whole crop wheat or maize and crimped barley/wheat	€6.35
CUTZYME	Shamrock Farm Enterprises Ltd. Dundrum ., Co. Tipperary. Phone: 062-71633	Lactobacillus plantarum Pedioc. acidilactici Streptococcus faecium, Cellulase, Hemicellulase Pentosanase, Amylase	2 litres/tonne (liquid) 0.4 kg/tonne (powder)	€1.50 €1.50
DENN SILE	Pat Denn (Agri) Ltd., Industrial Est., Cappoquin, Co. Waterford. Phone:058-54100	Lactobacillus plantarum Pediococcus acidilactici Streptococcus faecium,	0.5 kg per tonne	€1.40
DOUBLE ACTION ECOCORN (wholecrop and maize)	Novokem Ltd. 5, Tilberry Place Kilkenny. Phone: 056-779 5651	Lactobacillus plantarum MTD1 Potassium sorbate	Liquid: 2 l/tonne Dry: 400 g/tonne	€2.60
DURACROP	Durapak Agri Ltd., Enterprise Pk., Innishmore, Ballincollig, Co. Cork. Phone: 021-4875511	Pediococcus pentosaceus Lactobacillus plantarum Lactobacillus casei Propionibacterium shermanii	4 litres per tonne tonne of premix	€4.06

Product	Manufacturer/Distributor	Stated Composition	Manufacturers Application Rate	Cost/Tonne Ensiled
DURASILE	Durapak Agri Ltd., Enterprise Pk., Innishmore, Ballincollig, Co. Cork. Phone: 021-875511	Lactobacillus plantarum Pediococcus acidilactici Hydrolytic enzymes	2 litres/tonne premix 400g/tonne powder	€2.03 €2.03
ECOSYL	Novokem Limited, 5, Tilberry Place Kilkenny. Phone: 056-779 5651	Lactobacillus plantarum MTD 1	Ecosyl Liquid: Each bottle diluted to 100 litres with water. Apply at 3 litres per tonne Powder: 500 g per tonne	€1.99
ECOBAL	Novokem Limited, 5, Tilberry Place Kilkenny. Phone: 056-779 5651	Lactobacillus plantarum MTD 1 Serratia rubidaea strain FB/299 Bacillus subtilis strain FB/260	Each bottle diluted to 50 litres with water. Treats 16 t (32 bales) Apply at 3 litres per tonne	€2.54 €1.27 per bale
ERINGOLD	Specialised Agri Products Lombardstown, Mallow, Co. Cork Phone: 022 47235	Lactobacillus plantarum Pediococcus acidilactici Enterococcus faecium Lactobacillus salivarius Cellulase, Hemicellulase Amylase, Pentosanase	Liquid: 10 g in 2 litres per tonne Granular: 250 g per tonne	N/A N/A
FEEDTECH SILAGE	Unit 6, Shamrock Business Park Carlow Phone: 059-914 6859	Lactobacillus plantarum Pediococcus acidilactici Cellulase	2 Litres per tonne	€2.20 to €2.49
GOLD SILE	J.G. Chemicals Ltd., Skule Hill, Fedamore, Co. Limerick. Phone: 061-390045	Pediococcus acidilactici, Lactobacillus plantarum, Streptococcus faecium, Lactobacillus casei Cellulase, Hemicellulase Enzymes	Granular: apply at 250 g per tonne	€1.45
GOLD SILE (Maize)	J.G. Chemicals Ltd Skule Hill, Fedamore, Co. Limerick Phone: 061-390045	Lactic acid producing bacteria Amylase, Pentosanase Enzymes Sulphite Salts	400g per tonne	€1.45
GOLD SILE (Wholecrop)	J.G. Chemicals Ltd Skule Hill, Fedamore, Co. Limerick Phone: 061-390045	Lactic acid producing bacteria Buchneri bacteria Sulphite Salts	500g per tonne	€1.50

Inoculants (Cont'd)

Product	Manufacturer/Distributor	Stated Composition	Manufacturers Application Rate	Cost/Tonne Ensiled
HERBI-SILE	Trouw Nutrition UK Ltd., 36 Ship St., Belfast BT151 JL Phone: 00 44 1232 748233	Enterococcus faecium, Lactobacillus plantarum, Cullulase, Hemicellulase Enzymes	250 g per tonne	€1.89
HERBI 02	Trouw Nutrition UK Ltd., 36 Ship St., Belfast BT151 JL Phone: 00 44 1232 748233	Hydrogen peroxide plus stabilisers	3 litres per tonne	€3.53
PIONEER BRAND 1188 SILAGE INOCULANT	Southern Fuel Farm Supplies Ltd. Knockgriffin, Middleton Co. Cork Phone: 021 463 2020	Lactobacillus plantarum Enterococcus faecium	Liquid: 2 litre per tonne or Apli Pro® at 0.001 litres/tonne Granular: 0.5 Kg per tonne	€1.59
PIONEER BRAND 11 A 44 SILAGE INOCULANT	Southern Fuel Farm Supplies Ltd. Knockgriffin, Middleton Co. Cork Phone: 021 463 2020	Lactobacillus buchneri	2 Litres per tonne or Apli Pro® at 0.001 litres/tonne Granular: 0.5 Kg per tonne	€1.90
PIONEER BRAND 11G 22 (High DM grass, wholecrop, cereal/pea silage)	Southern Fuel Farm Supplies Ltd. Knockgriffin, Middleton Co. Cork Phone: 021 463 2020	Lactobacillus plantarum Enterococcus faecium Lactobacillus buchneri	2 litres per tonne or Apli Pro® at 0.001 litres/tonne	N/A
PIONEER BRAND 11 C 33 (Maize Silage)	Southern Fuel Farm Supplies Ltd. Knockgriffin, Middleton Co. Cork Phone: 021 463 2020	Lactobacillus buchneri Enterococcus faecium Lactobacillus buchneri	2 Litres per tonne or Apli Pro® at 0.001 litres/tonne	N/A
POWERSTART	ABS Ireland Ltd. Ballycarroll, Portlaoise, Co. Laois Phone: 0502 46644	Lactobacillus plantarum Lactococcus lacti (aber F1)	1 - 2 litres per tonne	€1.50
QUICKSILE	Britmilk Ballantrae Hse., Woodside Rd., Collin, Dumfriesshire, DG1 4PT, Scotland Phone: 0044-1387-750459	Streptococcus faecium Pediococcus spp. Lactobacillus plantarum Enzymes & Nutrients	Liquid: 2L per tonne Granular: 400g per tonne	€1.84 €1.84

Product	Manufacturer/Distributor	Stated Composition	Manufacturers Application Rate	Cost/Tonne Ensiled
RESULT	Spillanes Consultancy and Agri Dunmore Road Waterford Phone: 051-877076	Streptococcus faecium Lactobacillus plantarum Pediococci strains Cellulase, Amylase	0.5kg per Tonne	€1.65
SIL-AIL 4x4	Alltech (Ireland) Ltd., Sarney, Summerhill Rd, Dunboyne, Co. Meath Phone: 01-8252244	Lactobacillus plantarum Pediococcus acidilactici Enterococcus faecium Lactobacillus salivarius Cellulase, Hemicellulase, Amylase, Pentosanase	Liquid: 10gr in 2 litres Apply at 2 litres Granular: 250 g per tonne	€1.60 €1.60
SILA GOLD	In-Form Nutrition Whites Cross, Cork. Phone:021-4394770	Streptococcus faecium Lactobacillus plantarum Pediococcus acidilactici Cellulase, Hemicellulase, Pentosanase, Amylase.	500g per tonne	€1.53
SILA-SAVE	In Form Nutition Whites Cross, Cork. Phone: 021 4394770	Organic Acids Mould Inhibitors	500g per M ² on pit surface	€31.74per20 kg
SILO KING MS (Maize) GS (grass)	Agriking Ltd Westergate Street, Westergate, West Sussex, PO20 6QZ. U.K. Phone: 0044 1243 545848	Lactobacillus plantarum Pediococcus pentosaceus Anti-oxidants, Mould inhibitors Enzymes	Soluble: 16 g in 1 litreof water per tonne Granular: 300 g/per tonne	€1.30 €1.90
SILE-MASTER	Stockmaster Farm Supplies Ltd., Lisnalty, Rosbrien, Co. Limerick. Phone: 061-227290	Pediococcus acidilactici Lactobacillus plantarum Streptococcus faecium Cellulase, Amylase, Hemicellulase, Pentosanase	0.5 kg per tonne	€1.78
SILOMATE	Galway Homeopathics (Manf.) Ltd., Chapel Lane, Tuam, Co. Galway. Phone: 093-25495	Lactobacillus plantarum Streptococcus faecium Pediococcus strains Enzymes, Sugars	2 litres per tonne	€1.78 to €1.97
SILO-SEAL	Byrne Livestock Feeds Ltd.,, Ardattin, Co. Carlow. Phone: 059- 915 5607	Lactobacillus plantarum Pediococcus acidilactici, Streptococcus faecium Cellulases, Pentosanase	Liquid: 10g in 2 litres Granular: 500 g per tonne	€1.30 €1.40

Inoculants (Cont'd)

Product	Manufacturer/Distributor	Stated Composition	Manufacturers Application Rate	Cost/Tonne Ensiled
SUPERCUT	Shamrock Agri, Headford, Killarney, Co.Kerry Phone: 087 259 0230	Lactobacillus plantarum ATCC 8014 Pediococcus acidilactici ATCC 8042 Enterococcus faecium, ATCC 9434 Amylase, cellulase, hemicellulase, Pentosanase	400g/tonne	€1.60
SWEETSILE	Agway Milling Ltd., Dosco Industrial Est., South Douglas Rd., Cork. Phone: 021-4892266	Lactobacillus plantarum Pediococcus pantosaceus	Soluble; 3 g/tonne	€1.65
			Powder; 250 g/tonne	€1.65
TOP CUT	Kerry Agri Business, Princes St., Tralee, Co. Kerry. Phone: 066-22617	Lactobacillus plantarum Pediococcus acidilactici Enterococcus faecium, Lactobacillus casei Cellulases, Hemicellulases	400 g per tonne	€1.60
ULTRA COOL	Britmilk Ballantrae House Woodside Road, Collin Dumfriesshire DG1 4PT,Scotland Phone: 00 44 138 775 0459	Heterofermentative bacteria Bacillus species Enzymes	Liquid; 2 litres per tonne	€2.90
			Granular; 250g per tonne	€2.90

**For further information or advice on any aspect of silage preservation,
contact your Teagasc adviser.**

**Handling and storage conditions can affect the quality of inoculant products.
The composition given in this directory may not necessarily be the same as that on the market.**

Published by Teagasc
19 Sandymount Avenue
Ballsbridge, Dublin 4
May, 2004



www.teagasc.ie