
Teagasc Directory of Silage Additives, 2003.



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Products in the 2003 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	Interchem Ltd., Cherry Orchard Ind. Est., Dublin 10. Phone: 01-6267211	Formic Acid 85%	2.3 litres per tonne	€1.90 at 2.3 litre rate
Add SaFeR	Interchem Ltd., Cherry Orchard Ind. Est., Dublin 10. Phone: 01-6267211	85% Ammonium Tetraformate salt	2.5 Liters per tonne	€2.30 at 2.5 litre rate
BROEISTOP	Future Farming Products Ltd., Main Street, Lucan, Co. Dublin. Phone: 01- 621 4457	Ammonium Propionate (Propionic Acid)	Dilute 5:1, Apply 1 litre per tonne	€1.59
BROEISTOP SOLID	Future Farming Products Ltd., Main Street, Lucan, Co. Dublin. Phone: 01- 621 4457	Ammonium Propionate Acid salts	150-200g per tonne	€1.14-€1.27 per tonne

Product	Manufacturer/Distributor	Stated Composition	Manufacturers Application Rate	Cost/Tonne Ensiled
Chemsil Plus	Ellis & Everand, Chemplus Ltd., Sfadco Ind. Est., Herbertstown, Co. Limerick. Phone 061-385211	Sulphuric Acid 45%	2.3 litres per tonne	€0.80 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	€0.95 at 2.5 litre rate
Formic Acid 85%	Ellis & Everand, Chemplus 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	€7.60
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 cellulase	500g/tonne	€1.90

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	€2.41 Grass €1.21 Maize

Salts

Product	Manufacturer/Distributor	Stated Composition	Manufacturers Application Rate	Cost/Tonne Ensiled
Eurosil 70	Timac, Clifton House, Lower Fitzwilliam Street, Dublin 2. Phone: 01-478 4781	Acid Sodium Bisulphate 70% Bactiostat/Sodium Chloride 15% Molassed Carrier 15%	2.5 kg/tonne Maize: 1.5 kg per m2 on top 0.5 m only	€2.54-€4.40 €2.03/m2
ReGULATOR	Novokem Ltd., Beach Road, Kilkenny. Phone: 056-70 121	Sulphite Salts	Liquid: 200 ml/tonne diluted to 2 litres per tonne Granular: 250 g/tonne	€1.65

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	600 g 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	€1.75 €1.75
BIOHAY	Forage Systems No.1 Sunbury Close, Kilcullen, Co. Kildare. Phone: 045-481719	Lactobacillus buchneri (40788)	4L per tonne	N/A
BIO LIVE SL	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	€1.14

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: 021 435 3500	Lactobacillus plantarum Pediococcus pentosaceus	Liquid: 60g in 40 Litres of water Apply at 2 Litres Per Tonne	€2.34
			Dry: 200g per tonne	€2.46
Biomax® 5	Chr. Hansen Ireland Ltd. Rohan Industrial Estate, Little Island, Co. Cork Phone: 021 435 3500	Lactobacillus plantarum (PA-28) Lactobacillus plantarum (K-270)	Liquid: 50g in 100 Litres of water. Apply at 2 litres per tonne maize	€1.52
			Dry: 200g per tonne maize	€1.65
Biomax® SI	Chr. Hansen Ireland Ltd. Rohan Industrial Estate, Little Island, Co. Cork Phone: 021 435 3500	Lactobacillus plantarum	Liquid: 100 g/50 litres of water, apply at 2 litres/tonne	€1.52
			Dry: 200 g per tonne	€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	Macroom Mills, Macroom, 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	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
BIO STABLE			4 litres per tonne (Bio Stable)	N/A
BIOTAL SOLO MAIZE			2 liters per tonne (Solo Maize)	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: 2Kg per 50 tonnes Liquid: 2L per tonne	€1.50 €1.45

Inoculants (Cont'd)

Product	Manufacturer/Distributor	Stated Composition	Manufacturers Application Rate	Cost/Tonne Ensiled
COOL-STORE XL	Britmilk Ballantrae Hse., Woodside Rd., Collin, Dumfriesshire, DG1 4PT, Scotland Phone: 0044-1387-750459	Preservative Salts Lactic acid bacteria Bacillus spp. Enzymes	Liquid: 2-4L/per tonne Granular: 500-1000g/per tonne	€2.00 to €4.00 €2.00 to €4.00
CRIMP SILE 500	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	Novokem Ltd. Beach Road, Kilkenny. Phone: 052-70121	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	€2.03
			400g/tonne powder	€2.03
Ecosyl	Novokem Limited, Beach Road, Kilkenny. Phone: 052-70121	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
ECOBALÉ	Novokem Limited, Beach Road, Kilkenny. Phone: 052-70121	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	De Laval Limited Cloverhill Industrial Estate Clondalkin, Dublin 22 Phone: 01-4136300	Lactobacillus plantoarum 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 Cullulase, Hemicellulase Enzymes	Liquid: 6.25 g per tonne apply at 2 litre/tonne	€1.60
			Granular: apply at 250 g per tonne	€1.60
GOLD SILE Maize and GOLD SILE Wholecrop	J.G. Chemicals Ltd Skule Hill, FedamoreCo. Limerick Phone: 061-390045	Lactic acid producing bacteria Amylase, Pentosanase Enzymes Sulphite Salts	400g per tonne	€1.50
HERBI-SILE	Trouw Nutrition UK Ltd., 36 Ship St., Belfast Phone: 00 44 1232 748233	Enterococcus faecium, Lactobacillus plantarum, Cullulase, Hemicellulase Enzymes	250 g per tonne	€1.89

Inoculants (Cont'd)

Product	Manufacturer/Distributor	Stated Composition	Manufacturers Application Rate	Cost/Tonne Ensiled
PIONEER BRAND 1188 SILAGE INOCULANT	Pioneer Hi-Bred Northern Europe Sales Division,GmbH, Central Boulevard, Blyth Valley Business Park. Solihul, West Midlands, B90 8AG Phone: 00 44 1604 858008	Lactobacillus plantaram Enterococcus faecium	Liquid: 2 litre per tonne Granular: 0.5 Kg per tonne	€1.59
Pioneer Brand 11 A 44 Silage Inoculant	Pioneer Hi-Bred Northern Europe Sales Division,GmbH, Central Boulevard, Blyth Valley Business Park. Solihul, West Midlands, B90 8AG Phone: 00 44 1604 858008	Lactobacillus buchneri	2 Litres per tonne	€1.90
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	€1.60 €1.60
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	€1.70 €1.80

Product	Manufacturer/Distributor	Stated Composition	Manufacturers Application Rate	Cost/Tonne Ensiled
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 Nutrition 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 litre of 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: 0503-55607	Lactobacillus plantarum Pediococcus acidilactici, Streptococcus faecium Cellulases, Pentosanase Hemicellulases, Analyse	Liquid: 10g in 2 litres Granular: 500 g per tonne	€1.30 €1.40
Sweetsile	Agway Milling Ltd., Dosco Industrial Est., South Douglas Rd., Cork. Phone: 021-4892266	Lactobacillus plantarum Pediococcus pentosaceus	Soluble: 3 g/tonne Powder: 250 g/tonne	€1.65 €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

**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.**

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