

FEMAS Materials/Additives List

The following products have been put on our existing FEMAS certificate (Schedule of Registration held by PAI). They are as follows:

| Feed Materials | Product Code | Reference Number |
|---------------------------------|--------------|-------------------|
| *Alfalfa Powder | P01102 | 6.10.1 |
| *Apple Pectin | P01253 | 5.27.1 |
| Astragalus root powder | P01296 | 01818-EN |
| *Boswellia Powder | P02158 | 05321-IT/05320-EN |
| *Brewers Yeast Powder | P02167 | 12.1.15 |
| *Carrot Powder | P03163 | 4.3.1 |
| *Cayenne Powder | P0311 | 01406-EN |
| *Calcium Carbonate | P0302 | 11.1.1 |
| *Chlorella Powder | P03214 | 02651- EN |
| Chondroitin Sulphate | P0325 | 13.12.2 |
| Chondroitin Sulphate 90% Marine | P03230 | 13.12.2 |
| *Chondroitin Sulphate 90% Avian | P03240 | 13.12.2 |
| *Citrus Pectin | P01237 | 5.27.1 |
| Cranberry Extract | P03449 | 04035-EN |
| *Dextrose monohydrate | P04039 | 13.2.2 |
| *Fenugreek Powdered Seed | P0602 | 3.5.1 |
| Garlic Powder | P07065 | 4.5.1 |
| Glucosamine | P0716 | 13.2.8 |

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FDA number: 16806073982

+44 (0) 1353 667258 | www.c-c-l.com | info@c-c-l.com

Registered in England No: 3590758 VAT No: GB 711 6598 32

Registered office: 203 Lancaster Way Business Park, Ely, Cambridgeshire, CB6 3NX, UK.

Feed Materials Continued

| Feed Materials | Product Code | Reference Number |
|---|--------------|------------------|
| *Glucosamine HCL Vegetarian (fermented) | P07166 | 13.2.8 |
| *Glutamine Peptide Powder | P07245 | 04344-EN |
| Green Tea Extract | P0736 | 02196-EN |
| *Inulin Powder (Beneo Orafti® ST) | P09025 | 4.4.9 |
| Magnesium Chelate 40% | P13026 | 02326-EN |
| Magnesium Aspartate | P13018 | 03087-EN |
| *Magnesium Oxide | P1305 | 11.2.1 |
| Milk Thistle Seed Powder | P13225 | 01970-EN |
| *Maltodextrin | P13014 | 13.3.6 |
| MSM | P1319 | 13.9.1 |
| *Ribose (D) | P18037 | 04424-EN |
| Slippery Elm Bark (Inner bark) | P1961 | 01117-EN |
| *Sweet Potato Powder | P1950 | 4.9.1 |
| *Soy Lecithin | P1920 | 03198-EN |
| *Spirulina Powder | P1921 | 00514-DE |
| *Palatinose | P22109 | 4.1.6 |
| *Whey Protein Powder 35% | P2303 | 8.17.1 |

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Feed Additives

| Feed Additives | Product Code | Reference Number | Sub classification or Code |
|--------------------------------------|--------------|------------------|--|
| *Arginine (L) | P01218 | 3c361 | Amino acids, their salts and analogues |
| Artichoke Extract | P01215 | 2b | Natural products botanically defined |
| Artichoke Extract | P01211 | 2b | Natural products botanically defined |
| *Bentonite | P10210 | 1m558 | Substances for the reduction of the contamination of feed by mycotoxins. |
| *Calcium Lactate | P03085 | 1a | Preservatives |
| *Carnitine (L) | P0313 | 3a | Vitamins and pro vitamins |
| Choline Chloride | P03223 | 3a | Vitamins and pro-vitamins |
| *Citric Acid Anhydrous (12-40 Mesh) | P0329 | 1a | Preservative |
| *Citric Acid Anhydrous (30-100 Mesh) | P11940 | 1a | Preservative |
| *Citric Acid Mono (8-80 Mesh) | P0330 | 1a | Preservative |
| Citrus Bioflavonoids 60% | P03230 | 2b | Natural products – botanically defined |
| *Curcumin 95% Curcumin | P03497 | 2b | Natural products – botanically defined |
| Devils Claw Extract 5% | P04035 | 2b | Natural products – botanically defined |
| *D-Biotin | P14379 | 3a880 | Vitamins, provitamins and chemically defined |
| *Ferrous Fumarate | P0603 | 3b | Trace elements |
| Ginkgo Biloba Extract 24/6 | P07102 | 2b | Natural products – botanically defined |
| *Glycine (L) | P0728 | 2b | Flavouring compounds |
| *Guar Gum | P0737 | 1 E412 | Emulsifying and stabilizing agents, thickeners and gelling agents |

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Feed Additives Continued

| | | | |
|--|--------|--------|---|
| *Inositol | P0902 | 3a900 | Vitamins, provitamins and chemically well-defined substances having similar effect |
| *Lysine mono HCL | P1210 | 3c | Amino acids, their salts and analogues |
| *Malic Acid (DL) | P11375 | 1a | Preservatives |
| *Methionine (L-) | P1317 | 3c | Amino acids, their salts and Analogues |
| *Methionine (DL) | P1316 | 3c | Amino acids, their salts and Analogues |
| Phenylalanine (L) | P1608 | 2b | Natural or corresponding synthetic chemically defined flavourings |
| *Potassium Sorbate | P16175 | 1a | Preservatives |
| Rosehip Extract 20:1 | P18052 | 2b | Natural products botanically defined Vitamins and pro-vitamins |
| *Taurine (L) | P20030 | 2b | Natural or corresponding synthetic chemically defined flavourings |
| Tyrosine (L) | P2010 | 3c | Amino acids, their salts and Analogues |
| Vanillin | P22023 | 2b | Natural or corresponding synthetic chemically defined flavourings |
| *Sodium Selenite Anhydrous | P19194 | E 8 | Trace elements |
| *Vitamin A Retinol Acetate 325,000iu/g CWS | P2203 | 3a672a | Vitamins and provitamins and chemically well-defined substances having similar effect |

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| | | | |
|---|--------|-------|---|
| *Vitamin B3 (nicotinamide) | P22104 | 3a315 | Vitamins and provitamins and chemically well-defined substances having similar effect |
| Feed Additives Continued | | | |
| *Vitamin C | P2213 | 3a | Vitamins and pro-vitamins |
| Vitamin K | P2233 | 3a711 | Vitamins and pro-vitamins chemically well defined |
| *Vitamin D3 Cholecalciferol 100,000 iu/gm | P2217 | E 671 | Vitamins and provitamins |
| *Vitamin B6 (Pyridoxine) HCl | P2211 | 3a831 | Vitamins and provitamins |
| *Vitamin B1 (Thiamine) HCl | P2204 | 3a820 | Vitamins and provitamins |
| *Vitamin B6 Hcl DC 98% | P22112 | 3a831 | Vitamins and provitamins |

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Change History

| Version | Change |
|---------|---|
| 1 | First Issue |
| 1-16 | Pre change control history |
| 17 | New format |
| 18 | Cobalt Sulphate Heptahydrate added |
| 19 | Removal of grape seed extract |
| 20 | Pumpkin powder added |
| 21 | Calcium Lactate added |
| 22 | Taurine from 2b to 3a |
| 23 | Ginkgo leaf removed |
| 24 | Dextrose Monohydrate added |
| 25 | Slippery Elm added, Vanillin removed |
| 26 | Removed Apple Pectin |
| 27 | Removed Green Lipped Mussel |
| 28 | Bovine Colostrum added |
| 29 | Product codes added to the scope. Astragalus root powder – P01296, Brewers Yeast DC Grade P02167, Milk Thistle Seed Powder – P13225 and Vegetarian Glucosamine HCL (Fermented) – P07166 added to the scope. |
| 30 | Psyllium Husk Powder – P16095 & Citrus Pectin – P01237 added |
| 31 | Phenylalanine (L) – P1608 added |
| 32 | Boswellia Powder – P02158 added |

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|----|--|
| 33 | Choline Chloride – P03223 |
| 34 | Bovine Colostrum – P03401 |
| 35 | Amended a clerical error on Rosehip Extract 20:1, the code was listed as P18037 when it should have been P18052. |
| 36 | Slippery Elm Bark Powder (Inner bark) – P1961 – Added |
| 37 | Vanillin – P22023, L – Arginine – P01218 – Added. |
| 38 | Added Devils Claw Extract 5% - P04035, Citrus Bioflavonoids – P03329, Vitamin K – P2233, Bentonite – P10210. Remove Vitamin K – P2221 (P2233 replaced). |
| 39 | Alfalfa Powder – P01102 added to the scope |
| 40 | Removed from the scope Fennel Seed Powder – P06031, Cobalt Sulphate Heptahydrate – P03343, Activated Charcoal – P01048, Borage Oil – P0213. Bitter Melon Extract 4.1 – P11005, Devils Claw Extract – P0403, |
| 41 | Added Apple Pectin – P01253 & Carnitine (L) – P0313 |
| 42 | Bromelain – P02172 removed, instruction from the FSA. |
| 43 | Aniseed Oil (Pimpinella anisum) – P01160 removed from the scope. |
| 44 | Added DL-Malic Acid – P11375 |
| 45 | Added Vitamin B3 (Nicotinamide) – Bulk Density 0.65cm ³ P22104, Vitamin A Retinol Acetate 325,000iu/g CWS P2203, Vitamin D3 Cholecalciferol 100,000 iu/gm (0.25%) P2217, Sodium Selenite Anhydrous (Selenium Min 45%) P19194, Vitamin B2 Riboflavin 95% DC P22091, Vitamin B2 (Riboflavin) 100% P2209, Vitamin B2 Riboflavin 5 Phosphate P22095 |
| 46 | Added Fenugreek Powdered Seed - P0602, • Vitamin B6 (Pyridoxine) HCl – P2211, Vitamin B1 (Thiamine) HCl – P2204, Vitamin B6 Hcl DC 98% - P22112 |
| 47 | Added Palatinose – P22109. Removed P16095 – Psyllium Husk Powder |

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|----|---|
| 48 | Added Ginkgo Biloba Extract 24/6 – P07102, Calcium Carbonate – P0302, Citric Acid Anhydrous – P0329, Citric Acid Anhydrous (30-100 Mesh) – P11940, Citric Acid Mono (8-80 Mesh) – P0330. |
| 49 | Added Whey Protein Instant 90% - P23037. Added P01215 Artichoke Extract |
| 50 | Added P10364 Aloe Vera Extract 200:1 |
| 51 | Official listings for the following materials have been updated Chondroitin Sulphate – P0325 Hyaluronic Acid – P08029 Taurine (L) – P20030. Removed - Zinc Amino Acid Chelate – P2600. Added - Methionine (L-) - P1317 - Artichoke Extract 5% Caffeoylquinic acid - P01211. |
| 52 | Removed Pumpkin powder – P16243, Vitamin B2 Riboflavin 95% DC – P22091, Vitamin B2 (Riboflavin) 100% - P2209, Vitamin B2 Riboflavin 5 Phosphate (0.25%) – P22095. Added - Whey Protein Powder 35% - P2303. |
| 53 | Removed Hyaluronic Acid - P08029. |
| 54 | The following materials have been added to the scope: Methionine (DL-) – P1316, Glycine (L) – P0728, Lysine HCL – P1210, Acacia Gum – P0101, Cayenne Powder – P0311, Cayenne Powder – P0311, Curcumin 95% Curcumin – P03497, Inositol – P0902, Ferrous Fumarate BP – P0603, Guar Gum – P0737, Magnesium Oxide – P1305, Sweet Potato Powder – P1950. |

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| | |
|----|--|
| 55 | The following materials have been added to the scope: Chondroitin Sulphate 90% Marine - P03230, Inulin Powder – P09025. |
| 56 | <p>The following materials have been removed from the scope as they are discontinued - Aloe Vera Extract 200:1 – P10364, Slippery Elm Powder – P19152, Whey Protein Instant 90% - P23037, Arginine (L) – P0119 & Artichoke Extract – P01210.</p> <p>The following materials have had their classification adjusted due to recent register updates - Astragalus root powder – P01296, Boswellia Powder – P02158, Brewer’s Yeast Powder – P02167, Cayenne Powder – P0311, Chlorella Powder – P03214, Citrus Bioflavonoids 60% - P03329 is now classified as a feed additive, Cranberry Extract – P03449, Glutamine Peptide Powder – P07245, Green Tea Extract – P0736, Magnesium Amino Acid Chelate – P13026, Magnesium Aspartate – P13018, Milk Thistle Seed Powder – P13225, Ribose (D) – P18037, Slippery Elm Bark (Inner bark) – P1961, Soy Lecithin – P1920, Spirulina Powder – P1921.</p> <p>The following materials have been added to the scope – Magnesium Chelate 40% - P11563, Chondroitin sulphate 90% - P03240.</p> |
| 57 | The following products have been removed from the scope - Magnesium Chelate 40% - P11563, |

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| | |
|----|---|
| 58 | D-Biotin P14379 added to the assurance scope. |
|----|---|

*indicates assured at source.

Document Approval

| Originator | Approver |
|-----------------------|-----------------------|
| <i>P B Barnhill</i> | <i>S M McKenna</i> |
| x 25/02/2020 16:58 | x 25/02/2020 17:00 |

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