

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK



4352

Accredited to
ISO/IEC 17025:2005

Alex Stewart Agriculture Limited, trading as Huson and Hardwick

Issue No: 011 Issue date: 07 April 2017

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Testing performed at the above address only

DETAIL OF ACCREDITATION

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|---------------------------|---|--|
| ANIMAL FEEDS | <u>Chemical Tests</u> | Documented in-house methods identified by method number |
| | Ash (Crude) | 07L.1.011 based on ISO 5984:2002 |
| | Calcium | 07L.1.005 based on ISO 6869:2000 |
| | Chloride (Total) | 07L.1.009 based on Pearsons Chemical Analysis of Foods using muffle oven and Titration |
| | Fatty Acid Methyl Esters | 07L.1.006 based on ISO 12966-2:2011 |
| | Fibre (Crude) | 07L.1.007 based on ISO 6865:2001 |
| | Magnesium | 07L.1.005 based on ISO 6869:2000 |
| | Moisture and Volatile Matter | 07L.1.002 based on ISO 6496:1999 |
| | Nitrogen | 07L.1.003 based on ISO 5983-1:2005 |
| | Oils and Fats (Crude) | 07L.1.004 based on Commission Regulation (EC) 152/2009 |
| | Potassium | 07L.1.010 based on ISO 7485:2000 |
| | Sodium | 07L.1.010 based on ISO 7485:2000 |
| Oilseed (Rapeseed) | Moisture | 07L.1.012 based on ISO 665:2000 |
| | Oils | 07L.1.013 based on ISO 659:2009 |



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| ANIMAL FEEDS (cont'd) | <u>Calculated Values</u> Protein (Crude) (Calculated from Nitrogen) Nitrogen/Crude protein <u>Microbiological Tests</u> Detection of: <i>Salmonella spp</i> Enumeration of: <i>Clostridium perfringens</i> Enterobacteriaceae | Documented in-house methods identified by method number 07L.1.003 based on ISO 5983-1:2005 07L.1.23 based on Dumas method Documented in-house methods identified by method number 07M.1.001 based on BS EN ISO 6579:2002 + A1:2007 in accordance with the Animal By-Products Regulations (ABPR) 2011 with specific reference to Regulation (EC) 1069/2009 and 142/2011 07M.1.003 based on BS EN ISO 7937:2004 in accordance with the Animal By-Products Regulations (ABPR) 2011 with specific reference to Regulation (EC) 1069/2009 and 142/2011 07M.1.002 based on BS ISO 21528-2:2004 in accordance with the Animal By-Products Regulations (ABPR) 2011 with specific reference to Regulation (EC) 1069/2009 and 142/2011 |
| ENVIRONMENTAL SAMPLES | <u>Microbiological Tests</u> Detection of: <i>Listeria spp</i> including Identificaiton of <i>Listeria monocytogenes</i> <i>Salmonella spp</i> | 07M.1.016 based on BS EN ISO 11290-1:1997 07M.1.004 based on BS EN ISO 6579:2002 + A1:2007 |



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| ENVIRONMENTAL SAMPLES (cont'd) | <u>Microbiological Tests</u> (cont'd) Enumeration of: Aerobic Colony Count Coliforms (presumptive) <i>E. coli</i> (beta-glucuronidase-positive) Enterobacteriaceae (presumptive and confirmed) Faecal Streptococci (presumptive) <i>Listeria</i> spp including Identificaiton of <i>Listeria monocytogenes</i> Coagulase positive staphylococci including <i>Staphylococcus aureus</i> | Documented in-house methods identified by method number 07M.1.007 based on BS EN ISO 4833-1:2013 07M.1.011 based on BS ISO 4832:2006 at 37 °C 07M.1.010 based on BS ISO 16649-2:2001 07M.1.005 based on BS ISO 21528-2:2004 07M.1.018 based on BS 4285-3.11:1985 07M.1.017 based on BS EN ISO 11290-2:1998 07M.1.012 based on BS EN ISO 6888-1:1999 and confirmation using Microgen latex |
| FOOD and FOOD PRODUCTS (excluding dairy products and oil seeds) Foods containing <15% sugar (excluding dairy products, oil seeds) Foods containing >15% sugar (excluding dairy products, oil seeds) Other than matrices affected by above exclusions | <u>Chemical Tests</u> Ash Fat (Total) Moisture and Volatile Matter Moisture and Volatile Matter Protein (Crude) (Calculated from Nitrogen) Nitrogen/Crude protein 07L.1.23 Energy and Carbohydrate by Calculation | 07L.1.016 based on BS 4401-1:1998 07L.1.017 based on BS 4401-4:1970 07L.1.015 (method A) based on BS 4401-3:1997 07L.1.015 (method B) based on BS 4401-3:1997 07L.1.018 based on BS 4401-2:1980 07L.1.23 based on Dumas method 07L.1.019 |



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|--------------------------------------|---|---|
| FOOD and FOOD PRODUCTS (cont'd) | <p><u>Microbiological Tests</u></p> <p>Detection of:</p> <p><i>Listeria</i> spp including Identificaiton of <i>Listeria monocytogenes</i></p> <p><i>Salmonella</i> spp</p> <p>Enumeration of:</p> <p>Aerobic Colony Count</p> <p><i>Bacillus cereus</i> (presumptive)</p> <p><i>Clostridium perfringens</i></p> <p>Coliforms (presumptive)</p> <p><i>E. coli</i> (βeta-glucuronidase-positive)</p> <p>Enterobacteriaceae (presumptive and confirmed)</p> <p>Faecal Streptococci (presumptive)</p> <p><i>Listeria</i> spp including Identificaiton of <i>Listeria monocytogenes</i></p> <p>Coagulase positive staphylococci including <i>Staphylococcus aureus</i></p> | <p>Documented in-house methods identified by method number</p> <p>07M.1.016 based on BS EN ISO 11290-1:1997</p> <p>07M.1.004 based on BS EN ISO 6579:2002 + A1:2007</p> <p>07M.1.007 based on BS EN ISO 4833-1:2013</p> <p>07M.1.013 based on BS EN ISO 7932:2004</p> <p>07M.1.006 based on based on BS EN ISO 7937:2004</p> <p>07M.1.011 based on BS ISO 4832:2006 at 37 °C</p> <p>07M.1.010 based on BS ISO 16649-2:2001</p> <p>07M.1.005 based on BS ISO 21528-2:2004</p> <p>07M.1.018 based on BS 4285-3.11:1985</p> <p>07M.1.017 based on BS EN ISO 11290-2:1998</p> <p>07M.1.012 based on BS EN ISO 6888-1:1999 and confirmation using Microgen latex</p> |
| FOOD and FOOD PRODUCTS (aW >0.95) | <p>Mould</p> <p>Yeast</p> | <p>07M.01.009 based on BS ISO 21527-1:2008</p> <p>07M.01.009 based on BS ISO 21527-1:2008</p> |



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|--|---|---|
| FOOD and FOOD PRODUCTS (cont'd) | <u>Microbiological Tests</u> (cont'd) | Documented in-house methods identified by method number |
| FOOD and FOOD PRODUCTS (Aw ≤0.95) (cont'd) | Mould | 07M.01.008 based on BS ISO 21527-2:2008 |
| | Yeast | 07M.01.008 based on BS ISO 21527-2:2008 |
| END | | |