

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 Accredited to ISO/IEC 17025:2017	Alex Stewart Agriculture Limited, trading as Huson and Hardwick	
	Issue No: 015 Issue date: 18 September 2019	
	Unit 21 Sefton Business Park Netherton Liverpool Merseyside L30 1RD United Kingdom	Contact: Des McMillan Tel: +44 (0)151 525 1488 Fax: +44 (0)151 530 1563 E-Mail: Des.Mcmillan@alexstewartagriculture.com Website: www.alexstewartagriculture.com
Testing performed by the Organisation at the locations specified		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address Unit 21 Sefton Business Park Netherton Liverpool L30 1RD United Kingdom	Local contact Chemical and microbiological testing	A
Address Unit 20 Sefton Business Park Netherton Liverpool L30 1RD United Kingdom	Local contact Chemical testing	B



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ANIMAL FEEDS	<u>Chemical Tests</u>	Documented in-house methods identified by method number	A
	Calcium	07L.1.05 based on ISO 6869:2000	A
	Chloride (Total)	07L.1.09 based on Pearsons Chemical Analysis of Foods using nitric acid and Titration	A
	Magnesium	07L.1.05 based on ISO 6869:2000	A
	Nitrogen	07L.1.03 based on ISO 5983-1:2005	A
	Potassium	07L.1.10 based on ISO 7485:2000	A
	Animal feed, dry pet foods and wet pet foods	Ash (crude)	07L.1.11 based on ISO 5984:2002
Fibre (Crude)		07L.1.07 based on ISO 6865:2001	A
Animal feed, maize, pulses, dry pet foods and wet pet foods	Moisture and Volatile Matter	07L.1.02 based on ISO 6496:1999, ISO 712:2009, vacuum oven drying at 65°C, and ISO 24557:2009	A
	Oils and Fats (Crude)	07L1.04 based on Commission Regulation (EC) 152/2009	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ANIMAL FEEDS (cont'd)	<u>Chemical Tests</u>		
	Fatty acid composition	07L.1.06 based on ISO 12966-2:2017	A
	<u>Calculated Values</u>		
	Protein (Crude) (Calculated from Nitrogen)	07L.1.03 based on ISO 5983-1:2005	A
	Nitrogen/Crude protein	07L.1.23 based on Dumas method	A
	<u>Microbiological Tests</u>	Documented in-house methods identified by method number	
	Detection of: <i>Salmonella spp</i>	07M.1.01 based on BS EN ISO 6579-1:2017 in accordance with the Animal By-Products Regulations (ABPR) 2011 with specific reference to Regulation (EC) 1069/2009 and 142/2011	A
Enumeration of: <i>Clostridium perfringens</i>	07M.1.03 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	A	



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ANIMAL FEEDS (cont'd)	<u>Microbiological Tests</u> (cont'd) Enumeration of: Enterobacteriaceae	Documented in-house methods identified by method number 07M.1.02 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	A
ENVIRONMENTAL SAMPLES	Detection of: <i>Listeria</i> spp including Identification of <i>Listeria monocytogenes</i> and other named species	07M.1.16 based on BS EN ISO 11290-1:2017	A
	Enumeration of: Aerobic Colony Count	07M.1.07 based on BS EN ISO 4833-1:2013	A
	Coliforms (presumptive)	07M.1.11 based on BS ISO 4832:2006 at 37 °C	A
	<i>Escherichia coli</i> (β-glucuronidase positive)	07M.1.10 based on BS ISO 16649-2:2001	A
	Enterobacteriaceae (presumptive and confirmed)	07M.1.10 based on BS ISO 16649-2:2001	A
	Faecal Streptococci (presumptive)	07M.1.18 based on BS 4285-3.11:1985	A
	<i>Listeria</i> spp including Identification of <i>Listeria monocytogenes</i> and other named species	07M.1.017 based on BS EN ISO 11290-2:2017	A



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ENVIRONMENTAL SAMPLES (cont'd)	<u>Microbiological Tests</u> (cont'd) Enumeration of: Coagulase positive <i>staphylococci</i> including <i>Staphylococcus aureus</i>	Documented in-house methods identified by method number 07M.1.12 based on BS EN ISO 6888-1:1999 and confirmation using Microgen latex	A
FOOD and FOOD PRODUCTS Other than matrices affected by above exclusion (excluding dairy products and oil seeds)	<u>Chemical Tests</u> Ash	07L.1.16 based on BS 4401-1:1998	A
	Fat (Total)	07L.1.17 based on BS 4401-4:1970	A
Foods containing <15% sugar (excluding dairy products, oil seeds)	Moisture, Volatile Matter and Dry Matter	07L.1.15 (method A) based on BS 4401-3:1997	A
Foods containing >15% sugar (excluding dairy products, oil seeds)	Moisture, Volatile Matter and Dry Matter	07L.1.15 (method B) based on BS 4401-3:1997	A
Other than matrices affected by above exclusions	Energy and Carbohydrate (total and available) by Calculation	07L.1.019	A
	Dietary fibre	07L.1.20 by Ankom Fibre Analyser according to AOAC 991.43	A
Food and Food Products Animal Feeds Pet Food	Sodium/Salt (calculated from sodium)	07L.1.26 by ICP-OES following microwave digestion by 07L.1.25	B
	Protein (Crude) (Calculated from Nitrogen)	07L.1.18 based on BS 4401-2:1980	A
	Nitrogen/Crude protein	07L.1.23 based on Dumas method	A



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FOOD and FOOD PRODUCTS (cont'd) Other than matrices affected by above exclusion	<u>Chemical Tests</u> (cont'd)	Documented in-house methods identified by method number	
Foods, fats and oils	Fatty Acid Composition - Saturates - Mono-unsaturates - Poly-unsaturates - Trans fatty acids - Omega-3 acids - Omega-6 acids	07L.1.06 based on ISO 12966-2:2017	A
Butter, spreads and edible oil emulsions	Fat	07L.1.28. Gravimetric based on SO 17189:2003	A
Cheese	Fat	07L.1.29. Gravimetric based on ISO 1735:2004	A
Dairy products (excluding butter, spreads and cheese)	Fat	07L.1.30 Rose Gottlieb	A
Food and Food Products, Animal Feeds, Pet Foods	Total sugar	07L.1.31. Luff Schoolr	A
FOOD and FOOD PRODUCTS	<u>Microbiological Tests</u>		
	Detection of:		
	Listeria spp including Identification of Listeria monocytogenes and other named species	07M.1.16 based on BS EN ISO 11290-1:2017	A
	Salmonella spp	07M.1.04 based on BS EN ISO 6579-1:2017	A
	Enumeration of:		
	Aerobic Colony Count	07M.1.07 based on BS EN ISO 4833-1:2013	A
	Bacillus cereus (presumptive)	07M.1.13 based on BS EN ISO 7932:2004	A



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FOOD and FOOD PRODUCTS (cont'd)	<u>Microbiological Tests</u> (cont'd)	Documented in-house methods identified by method number	
	Enumeration of:		
	<i>Clostridium perfringens</i>	07M.1.06 based on based on BS EN ISO 7937:2004	A
	Coliforms (presumptive)	07M.1.11 based on BS ISO 4832:2006 at 37 °C	A
	<i>Escherichia coli</i> (β-glucuronidase-positive)	07M.1.10 based on BS ISO 16649-2:2001	A
	Enterobacteriaceae (presumptive and confirmed)	07M.1.05 based on BS ISO 21528-2:2017	A
	<i>Enterococcus</i> spp (presumptive)	07M.1.18 based on BS 4285-3.11:1985	A
	<i>Listeria</i> spp including Identification of <i>Listeria monocytogenes</i> and other named species	07M.1.17 based on BS EN ISO 11290-2:2017	A
	Coagulase positive staphylococci including <i>Staphylococcus aureus</i>	07M.1.12 based on BS EN ISO 6888-1:1999 and confirmation using Microgen latex	A
FOOD and FOOD PRODUCTS (Aw >0.95)	Moulds	07M.01.09 based on BS ISO 21527-1:2008	A
	Yeast	07M.01.09 based on BS ISO 21527-1:2008	A
FOOD and FOOD PRODUCTS (Aw ≤0.95)	Moulds	07M.01.08 based on BS ISO 21527-2:2008	A
	Yeast	07M.01.08 based on BS ISO 21527-2:2008	A
END			