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NFTA Laboratory Certification Report for 2016

Dry Matter

Sample	RMA	HSD	Rep-1	Rep-2	Rep-3	Avg	Bias	Bias^2	adjBias	Penalty
2016_AH_01	92.01	0.508	92.40	92.40	92.40	92.40	0.39 A	0.16	0.16	
2016_AH_02	93.89	0.478	94.20	94.00	94.00	94.07	0.18 A	0.03	0.03	
2016_AH_03	91.43	0.517	91.60	91.60	91.50	91.57	0.14 A	0.02	0.02	
2016_AH_04	92.74	0.496	92.70	92.70	92.90	92.77	0.03 A	0.00	0.00	
2016_AH_07	90.95	0.525	91.30	91.10	91.00	91.13	0.18 A	0.03	0.03	
2016_GH_08	94.06	0.475	93.60	93.50	93.70	93.60	-0.46 A	0.21	0.21	
avgHSD	0.496									
								Bias Total Accuracy:	0.302	
								NHSD:	0.609	A
									PASS	

Crude Protein

Sample	RMA	HSD	Rep-1	Rep-2	Rep-3	Avg	Bias	Bias^2	adjBias	Penalty
2016_AH_01	19.95	0.509	19.00	18.90	18.80	18.90	-1.05 C	1.10	1.10	
2016_AH_02	15.56	0.412	15.40	15.60	15.60	15.53	-0.03 A	0.00	0.00	
2016_AH_03	17.61	0.457	16.60	16.70	16.60	16.63	-0.98 C	0.96	0.96	
2016_AH_04	18.07	0.468	18.00	18.20	18.10	18.10	0.03 A	0.00	0.00	
2016_AH_07	17.56	0.456	16.50	16.40	16.50	16.47	-1.09 C	1.18	1.18	
2016_GH_08	7.82	0.230	7.30	7.60	7.30	7.40	-0.42 B	0.18	0.18	
avgHSD	0.393									
									Bias Total Accuracy:	0.827
									NHSD:	2.107
										C
									PASS	

ADF

Sample	RMA	HSD	Rep-1	Rep-2	Rep-3	Avg	Bias	Bias^2	adjBias	Penalty
2016_AH_01	32.03	0.760	33.60	33.50	34.00	33.70	1.67 C	2.80	2.80	
2016_AH_02	40.57	0.929	40.10	39.40	39.30	39.60	-0.97 B	0.94	0.94	
2016_AH_03	35.33	0.826	35.10	34.70	34.60	34.80	-0.53 A	0.28	0.28	
2016_AH_04	31.11	0.742	29.30	29.20	29.60	29.37	-1.74 C	3.02	3.02	
2016_AH_07	35.63	0.832	34.60	34.40	34.30	34.43	-1.20 B	1.45	1.45	
2016_GH_08	43.01	0.977	42.70	42.50	42.90	42.70	-0.31 A	0.10	0.10	
avgHSD	0.815							Bias Total Accuracy:	1.311	
								NHSD:	1.609	B
									PASS	

NDF

Sample	RMA	HSD	Rep-1	Rep-2	Rep-3	Avg	Bias	Bias^2	adjBias	Penalty
2016_AH_01	38.95	0.898	35.70	35.40	35.80	35.63	-3.32 D	11.01	11.01	
2016_AH_02	48.65	1.084	44.20	43.60	43.40	43.73	-4.92 F	24.17	24.17	
2016_AH_03	45.08	1.016	44.50	44.60	44.80	44.63	-0.45 A	0.20	0.20	
2016_AH_04	37.68	0.873	37.30	37.00	36.90	37.07	-0.61 A	0.38	0.38	
2016_AH_07	45.16	1.018	44.90	44.70	44.70	44.77	-0.39 A	0.15	0.15	
2016_GH_08	61.19	1.318	59.40	59.30	59.80	59.50	-1.69 B	2.85	2.85	
avgHSD	1.018							Bias Total Accuracy:	2.784	
								NHSD:	2.735	C
									PASS	

Certification Status: Certified				
Overall Grade: B				
	HSDAvg	BTA	NHSD	Status
Dry Matter	0.50	0.30	0.61	Pass
Crude Protein	0.39	0.83	2.11	Pass
ADF	0.82	1.31	1.61	Pass
NDF	1.02	2.78	2.73	Pass



Labs with missing results for a sample are assigned a penalty bias of 5.5 * HSD (adjBias). If a lab reporting results for a sample has an actual Bias greater than the "penalty" bias for a sample, then the penalty bias is used. This is signified by a "Yes" in the Penalty column above.

The overall grade is determined by averaging the grades for the four certification analytes (A=4, B=3, C=2, D or F = 1) and then the overall grade is assigned based on the following A > 3.4, 3.4 <= B > 2.4, 2.4 <= C > 1.5 and < 1.4 is failing.