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NFTA Laboratory Certification Report for 2012

Dry Matter

Sample	RMA	HSD	Rep-1	Rep-2	Rep-3	Avg	Bias	Bias^2	adjBias	Penalty
2012_AH_01	93.85	0.479	91.01	91.14	91.08	91.08	-2.77 F	7.67	7.01	Yes
2012_GH_02	94.59	0.467	94.95	94.92	95.02	94.96	0.37 A	0.14	0.14	
2012_AH_03	93.26	0.488	92.90	92.90	92.90	92.90	-0.36 A	0.13	0.13	
2012_AH_04	94.48	0.469	94.00	94.00	93.90	93.97	-0.51 B	0.26	0.26	
2012_AH_07	92.99	0.492	93.00	93.10	93.00	93.03	0.04 A	0.00	0.00	
2012_AH_08	92.91	0.494	93.10	93.10	93.10	93.10	0.19 A	0.04	0.04	
avgHSD	0.480									
								Bias Total Accuracy:	1.231	
								NHSD:	2.564	C
									PASS	

Crude Protein

Sample	RMA	HSD	Rep-1	Rep-2	Rep-3	Avg	Bias	Bias^2	adjBias	Penalty
2012_AH_01	18.37	0.474	18.82	18.78	18.84	18.81	0.44 A	0.19	0.19	
2012_GH_02	17.81	0.462	18.35	18.06	18.17	18.19	0.38 A	0.14	0.14	
2012_AH_03	18.67	0.481	18.70	18.80	18.90	18.80	0.13 A	0.02	0.02	
2012_AH_04	18.54	0.478	18.90	19.10	19.10	19.03	0.49 B	0.24	0.24	
2012_AH_07	22.37	0.561	21.70	21.80	21.70	21.73	-0.64 B	0.42	0.42	
2012_AH_08	21.19	0.535	21.30	21.50	21.50	21.43	0.24 A	0.06	0.06	
avgHSD	0.455									
									Bias Total Accuracy:	0.460
									NHSD:	1.011
										B
									PASS	

ADF

Sample	RMA	HSD	Rep-1	Rep-2	Rep-3	Avg	Bias	Bias^2	adjBias	Penalty
2012_AH_01	32.76	0.775	30.88	31.02	30.64	30.85	-1.91 C	3.66	3.66	
2012_GH_02	35.52	0.830	34.61	34.15	34.10	34.29	-1.23 B	1.52	1.52	
2012_AH_03	31.50	0.750	29.70	29.70	30.10	29.83	-1.67 C	2.80	2.80	
2012_AH_04	33.55	0.791	33.80	34.20	34.40	34.13	0.58 A	0.34	0.34	
2012_AH_07	26.14	0.640	26.90	27.10	26.80	26.93	0.79 B	0.63	0.63	
2012_AH_08	20.81	0.527	22.30	22.10	22.00	22.13	1.32 C	1.74	1.74	
avgHSD	0.703							Bias Total Accuracy:	1.462	
								NHSD:	2.079	C
									PASS	

NDF

Sample	RMA	HSD	Rep-1	Rep-2	Rep-3	Avg	Bias	Bias^2	adjBias	Penalty
2012_AH_01	38.87	0.896	36.51	36.57	36.37	36.48	-2.39 C	5.72	5.72	
2012_GH_02	45.42	1.023	46.29	46.85	46.65	46.60	1.18 B	1.40	1.40	
2012_AH_03	38.54	0.890	36.60	36.70	36.70	36.67	-1.87 C	3.50	3.50	
2012_AH_04	42.42	0.965	43.10	43.50	43.50	43.37	0.95 A	0.91	0.91	
2012_AH_07	31.93	0.758	33.90	33.80	33.90	33.87	1.94 C	3.76	3.76	
2012_AH_08	26.34	0.644	29.10	29.00	28.90	29.00	2.66 F	7.06	7.06	
avgHSD	0.866							Bias Total Accuracy:	2.114	
								NHSD:	2.441	C
									PASS	

Certification Status: Certified				
Overall Grade: C				
	HSDAvg	BTA	NHSD	Status
Dry Matter	0.48	1.23	2.56	Pass
Crude Protein	0.46	0.46	1.01	Pass
ADF	0.70	1.46	2.08	Pass
NDF	0.87	2.11	2.44	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.