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NFTA Laboratory Certification Report for 2013

Dry Matter

Sample	RMA	HSD	Rep-1	Rep-2	Rep-3	Avg	Bias	Bias^2	adjBias	Penalty
2013_AH_01	93.60	0.483	94.00	94.00	93.80	93.93	0.33	0.11	0.11	
2013_AH_02	93.66	0.482	93.90	93.90	93.90	93.90	0.24	0.06	0.06	
2013_AH_03	92.31	0.503	93.10	93.00	93.10	93.07	0.76	0.58	0.58	
2013_AH_04	93.69	0.481	93.50	93.80	93.80	93.70	0.01	0.00	0.00	
2013_AH_07	93.91	0.478	93.70	93.70	93.80	93.73	-0.18	0.03	0.03	
2013_GH_08	94.71	0.465	95.20	95.20	95.20	95.20	0.49	0.24	0.24	
2013_AH_09	91.77	0.512	91.90	92.00	92.00	91.97	0.20	0.04	0.04	
avgHSD	0.479									
								Bias Total Accuracy:	0.414	
								NHSD:	0.863	A
									PASS	

Crude Protein

Sample	RMA	HSD	Rep-1	Rep-2	Rep-3	Avg	Bias	Bias^2	adjBias	Penalty
2013_AH_01	14.72	0.393	15.40	15.50	15.60	15.50	0.78	0.60	0.60	
2013_AH_02	21.53	0.543	21.00	21.10	21.00	21.03	-0.50	0.25	0.25	
2013_AH_03	22.18	0.556	22.20	22.30	22.20	22.23	0.05	0.00	0.00	
2013_AH_04	16.09	0.424	16.70	16.80	16.70	16.73	0.64	0.40	0.40	
2013_AH_07	20.12	0.512	20.60	20.60	20.70	20.63	0.51	0.26	0.26	
2013_GH_08	6.19	0.188	5.90	5.70	5.80	5.80	-0.39	0.15	0.15	
2013_AH_09	17.44	0.454	18.20	18.00	18.10	18.10	0.66	0.43	0.43	
avgHSD	0.405									
									Bias Total Accuracy:	0.528
									NHSD:	1.305
										B
									PASS	

ADF

Sample	RMA	HSD	Rep-1	Rep-2	Rep-3	Avg	Bias	Bias^2	adjBias	Penalty
2013_AH_01	36.83	0.856	36.20	36.20	36.10	36.17	-0.66	0.43	0.43	
2013_AH_02	30.82	0.736	29.00	28.70	28.70	28.80	-2.02	4.08	4.08	
2013_AH_03	25.64	0.629	26.90	26.80	27.00	26.90	1.26	1.59	1.59	
2013_AH_04	32.11	0.762	33.50	33.80	33.90	33.73	1.62	2.62	2.62	
2013_AH_07	32.86	0.777	31.80	31.90	31.90	31.87	-0.99	0.99	0.99	
2013_GH_08	32.37	0.767	36.40	36.50	36.60	36.50	4.13	17.02	15.30	Yes
2013_AH_09	29.38	0.707	27.30	27.70	27.30	27.43	-1.95	3.80	3.80	
avgHSD	0.732									
								Bias Total Accuracy:	2.041	
								NHSD:	2.789	C
									PASS	

NDF

Sample	RMA	HSD	Rep-1	Rep-2	Rep-3	Avg	Bias	Bias^2	adjBias	Penalty
2013_AH_01	44.69	1.009	45.70	45.70	45.60	45.67	0.98	0.96	0.96	
2013_AH_02	36.42	0.848	36.20	36.20	36.00	36.13	-0.29	0.09	0.09	
2013_AH_03	31.04	0.740	34.80	34.50	34.50	34.60	3.56	12.67	12.67	
2013_AH_04	41.66	0.951	42.90	43.00	43.20	43.03	1.37	1.88	1.88	
2013_AH_07	40.08	0.920	40.40	40.50	40.30	40.40	0.32	0.11	0.11	
2013_GH_08	53.96	1.184	53.50	54.40	54.30	54.07	0.11	0.01	0.01	
2013_AH_09	36.32	0.846	35.20	35.00	35.20	35.13	-1.19	1.43	1.43	
avgHSD	0.943									
									Bias Total Accuracy:	1.618
									NHSD:	1.715
									PASS	B

Certification Status: Certified				
Overall Grade: B				
	HSDAvg	BTA	NHSD	Status
Dry Matter	0.48	0.41	0.86	Pass
Crude Protein	0.41	0.53	1.31	Pass
ADF	0.73	2.04	2.79	Pass
NDF	0.94	1.62	1.72	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.