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NIRS Consortium
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NFTA Laboratory Certification Report for 2009

Dry Matter

Sample	RMA	HSD	Rep-1	Rep-2	Rep-3	Avg	Bias	Bias^2	adjBias	Penalty
2009_AH_01	93.90	0.478	93.15	93.39	93.32	93.29	-0.61 B	0.37	0.37	
2009_AH_02	92.67	0.497	91.69	92.04	92.07	91.93	-0.74 B	0.55	0.55	
2009_AH_03	90.83	0.527	90.15	90.28	90.33	90.25	-0.58 B	0.34	0.34	
2009_GH_04	94.52	0.468	93.70	93.74	93.79	93.74	-0.78 B	0.61	0.61	
2009_CS_05	93.72	0.481	94.44	93.68	94.90	94.34	0.62 B	0.38	0.38	
2009_AH_06	92.56	0.499	92.55	92.25	92.32	92.37	-0.19 A	0.03	0.03	

avgHSD	0.492						Bias Total Accuracy:	0.677		
							NHSD:	1.376	B	
								PASS		

Crude Protein

Sample	RMA	HSD	Rep-1	Rep-2	Rep-3	Avg	Bias	Bias^2	adjBias	Penalty
2009_AH_01	17.11	0.446	16.65	17.03	16.71	16.80	-0.31 A	0.10	0.10	
2009_AH_02	18.37	0.474	17.33	17.68	17.71	17.57	-0.80 B	0.65	0.65	
2009_AH_03	20.52	0.521	19.39	19.61	19.73	19.58	-0.94 B	0.89	0.89	
2009_GH_04	10.05	0.284	9.56	9.39	9.30	9.42	-0.63 C	0.39	0.39	
2009_CS_05	7.77	0.228	7.09	7.35	7.01	7.15	-0.62 C	0.38	0.38	
2009_AH_06	16.56	0.434	16.63	16.80	16.61	16.68	0.12 A	0.01	0.01	

avgHSD	0.366						Bias Total Accuracy:	0.696		
							NHSD:	1.902	B	
								PASS		

ADF

Sample	RMA	HSD	Rep-1	Rep-2	Rep-3	Avg	Bias	Bias^2	adjBias	Penalty
2009_AH_01	30.90	0.737	28.33	29.00	28.58	28.64	-2.26 D	5.09	5.09	
2009_AH_02	28.82	0.695	28.30	27.59	27.87	27.92	-0.90 B	0.81	0.81	
2009_AH_03	22.62	0.566	23.07	23.06	23.47	23.20	0.58 B	0.34	0.34	
2009_GH_04	36.89	0.857	35.65	35.72	36.03	35.80	-1.09 B	1.18	1.18	
2009_CS_05	28.92	0.697	28.25	27.99	28.20	28.15	-0.77 B	0.60	0.60	
2009_AH_06	31.36	0.747	31.29	30.76	31.08	31.04	-0.32 A	0.10	0.10	
avgHSD	0.698							Bias Total Accuracy:	1.274	
								NHSD:	1.824	B
									PASS	

NDF

Sample	RMA	HSD	Rep-1	Rep-2	Rep-3	Avg	Bias	Bias^2	adjBias	Penalty
2009_AH_01	37.07	0.861	34.46	35.59	35.06	35.04	-2.03 C	4.12	4.12	
2009_AH_02	36.85	0.856	34.89	33.91	34.62	34.47	-2.38 C	5.64	5.64	
2009_AH_03	29.20	0.703	28.02	28.52	29.08	28.54	-0.66 A	0.44	0.44	
2009_GH_04	70.66	1.489	68.32	68.28	68.46	68.35	-2.31 B	5.34	5.34	
2009_CS_05	47.49	1.062	45.55	44.59	46.04	45.39	-2.10 B	4.39	4.39	
2009_AH_06	38.88	0.896	38.41	37.76	38.21	38.13	-0.75 A	0.56	0.56	
avgHSD	0.903							Bias Total Accuracy:	2.024	
								NHSD:	2.241	C
									PASS	

Certification Status: Certified

	HSDAvg	BTA	NHSD	Pass
Dry Matter	0.49	0.68	1.38	Pass
Crude Protein	0.37	0.70	1.90	Pass
ADF	0.70	1.27	1.82	Pass
NDF	0.90	2.02	2.24	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.