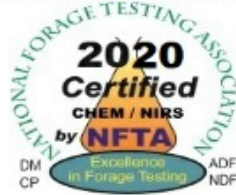




A NFTA Certified Laboratory



CDS LABORATORIES, INC.
Custom Dairy Services, Inc.

8895 Guide Meridian Rd
Lynden, WA 98264
Phone: 360-354-4344
Fax: 360-354-1114
E-mail: customdairyservices@frontier.com

Customer: **COUNTRY GARDEN FARMS**
Address: 1201 S. GROVER LANE
PALMER, AK 96645

Description: **G.HAY CGF2020 SMALL BALES**

Sampled: **8/10/2020**
Arrived: **8/10/2020**
Completed: **8/11/2020**
Report Number: **89271**

Certificate of Analysis

TEST	ON RECEIPT	DRY	METHOD	TEST	ON RECEIPT	DRY	METHOD
Dry Matter/Moisture				Energy Calculations			
Dry Matter (%)	87.47		WC	Non Structural Carbohydrate(%)	15.36	17.56	WC
Moisture (%)	12.53		WC	NonFiber Carbohydrate-Equine	17.60	20.12	WC
Protein/Nitrogen Fractions				TDN	53.55	61.22	CA
Crude Protein (%)	11.12	12.71	WC	TDN-EQUINE	83.28	95.21	WC
ADICP (%)	1.57	1.79	IR	RELATIVE FEED VALUE	84.66	96.79	CA
NDICP Sulfite Free (%)	4.70	5.37	IR	DE-EQUINE (Mcal/lb DM)	1.33	1.52	CA
Protein Solubility (%)	29.53	33.76	IR	Minerals			
Fiber Fractions				Ash (%)	5.22	5.97	WC
Acid Detergent Fiber (%)	29.42	33.63	WC	Calcium (%)	0.31	0.35	WC
aNeutral Detergent Fiber (%)	52.71	60.26	WC	Phosphorus (%)	0.30	0.34	WC
				Magnesium (%)	0.14	0.16	WC
				Potassium (%)	1.61	1.84	WC
				Sodium (%)	0.02	0.02	WC
				Copper (ppm)	20.83	23.81	WC
				Iron (ppm)	255.79	292.43	WC
				Zinc (ppm)	27.73	31.70	WC
				Manganese (ppm)	67.79	77.50	WC
				Carbohydrates and Fats			
				Fat-Ether Extract (%)	0.82	0.94	WC
				Starch (%)	1.75	2.00	WC
				Sugar- ESC (%)	9.18	10.50	WC
				Water Soluble Carbohydrates %	12.06	13.79	WC
				WSC GM/LB	54.76	62.60	WC
				NSC-Equine(WSC+Starch)	13.81	15.79	WC

Kelly Houston, Chemist
B.S. M.T. (ASCP)

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Customer: **COUNTRY GARDEN FARMS**
Address: 1201 S. GROVER LANE
PALMER, AK 96645

Description: **ALASKA BROME GRS HAY**

Sampled: **7/15/2019**
Arrived: **7/15/2019**
Completed: **7/17/2019**
Report Number: **82344**

Certificate of Analysis

TEST	ON RECEIPT	DRY	METHOD	TEST	ON RECEIPT	DRY	METHOD
Dry Matter/Moisture				Energy Calculations			
Dry Matter (%)	84.05		WC	Non Structural Carbohydrate(%)	10.80	12.85	CA
Moisture (%)	15.95		WC	Non Fiber Carbohyd.-NRC2001(%)	18.01	21.43	CA
Protein/Nitrogen Fractions				TDN	45.69	54.36	CA
Crude Protein (%)	11.24	13.37	WC	TDN-EQUINE	79.16	94.18	CA
ADICP (%)	1.66	1.98	IR	RELATIVE FEED VALUE	66.02	78.55	CA
NDICP Sulfite Free (%)	5.41	6.44	IR	EST. RFV-ASH CORRECTED	66.02	78.55	CA
Protein Solubility (%)	27.32	32.50	IR	DE-EQUINE (Mcal/lb DM)	1.12	1.33	CA
Fiber Fractions				Minerals			
Acid Detergent Fiber (%)	36.99	44.01	WC	Ash (%)	4.71	5.60	WC
aNeutral Detergent Fiber (%)	54.36	64.68	WC	Calcium (%)	0.25	0.30	WC
				Phosphorus (%)	0.26	0.31	WC
				Magnesium (%)	0.10	0.12	WC
				Potassium (%)	1.81	2.15	WC
				Sodium (%)	0.02	0.02	WC
				Copper (ppm)	11.73	13.96	WC
				Iron (ppm)	59.90	71.27	WC
				Zinc (ppm)	26.79	31.87	WC
				Manganese (ppm)	50.78	60.42	WC
				Carbohydrates and Fats			
				Fat-Ether Extract (%)	1.14	1.36	WC
				Starch (%)	2.34	2.78	WC
				Sugar- ESC (%)	7.38	8.78	WC
				Water Soluble Carbohydrates %	9.92	11.80	WC
				WSC GM/LB	45.03	53.58	CA

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Customer: **COUNTRY GARDEN FARMS**
Address: 1201 S. GROVER LANE
PALMER, AK 96645

Description: **ALASKA BROME GRS HAY**

Sampled: **7/15/2019**
Arrived: **7/15/2019**
Completed: **7/17/2019**
Report Number: **82343**

Certificate of Analysis

TEST	ON RECEIPT	DRY	METHOD	TEST	ON RECEIPT	DRY	METHOD
Dry Matter/Moisture				Energy Calculations			
Dry Matter (%)	86.67		WC	Non Structural Carbohydrate(%)	13.95	16.10	CA
Moisture (%)	13.33		WC	Non Fiber Carbohyd.-NRC2001(%)	20.08	23.17	CA
Protein/Nitrogen Fractions				TDN	52.05	60.06	CA
Crude Protein (%)	9.98	11.51	WC	RELATIVE FEED VALUE	78.17	90.19	CA
ADICP (%)	1.52	1.75	IR	EST. RFV-ASH CORRECTED	78.17	90.19	CA
NDICP Sulfite Free (%)	4.38	5.05	IR	DE-EQUINE (Mcal/lb DM)	1.27	1.47	CA
Protein Solubility (%)	27.44	31.66	IR	Minerals			
Fiber Fractions				Ash (%)	4.89	5.64	WC
Acid Detergent Fiber (%)	30.68	35.40	WC	Calcium (%)	0.35	0.40	WC
aNeutral Detergent Fiber (%)	54.82	63.25	WC	Phosphorus (%)	0.30	0.35	WC
				Magnesium (%)	0.15	0.17	WC
				Potassium (%)	1.51	1.74	WC
				Sodium (%)	0.03	0.03	WC
				Copper (ppm)	16.85	19.44	WC
				Iron (ppm)	86.32	99.60	WC
				Zinc (ppm)	22.01	25.40	WC
				Manganese (ppm)	73.64	84.97	WC
				Carbohydrates and Fats			
				Fat-Ether Extract (%)	1.28	1.48	WC
				Starch (%)	2.30	2.65	WC
				Sugar- ESC (%)	13.04	15.05	WC
				Water Soluble Carbohydrates %	12.65	14.60	WC
				WSC GM/LB	57.40	66.23	CA

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Customer: **COUNTRY GARDEN FARMS**
Address: 1201 S. GROVER LANE
PALMER, AK 96645

Description: **ALF. LARGE SQUARE CGF 2018**

Sampled: **7/23/2018**
Arrived: **7/23/2018**
Completed: **7/24/2018**
Report Number: **76482**

Certificate of Analysis

TEST	ON RECEIPT	DRY	METHOD	TEST	ON RECEIPT	DRY	METHOD
Dry Matter/Moisture				Energy Calculations			
Dry Matter (%)	89.63		WC	Non Structural Carbohydrate(%)	18.38	20.51	CA
Moisture (%)	10.37		WC	Non Fiber Carbohyd.-NRC2001(%)	25.13	28.04	CA
Protein/Nitrogen Fractions				TDN	83.81	93.51	CA
Crude Protein (%)	8.76	9.77	WC	RELATIVE FEED VALUE	86.59	96.61	CA
ADICP (%)	1.67	1.86	IR	DE-EQUINE (Mcal/lb DM)	1.43	1.60	CA
NDICP Sulfite Free (%)	4.75	5.30	IR	Minerals			
Protein Solubility (%)	29.34	32.73	IR	Ash (%)	5.25	5.86	WC
Fiber Fractions				Calcium (%)	0.38	0.42	WC
Acid Detergent Fiber (%)	30.16	33.65	WC	Phosphorus (%)	0.22	0.25	WC
aNeutral Detergent Fiber (%)	54.10	60.36	WC	Magnesium (%)	0.16	0.18	WC
				Potassium (%)	1.21	1.35	WC
				Sodium (%)	0.03	0.03	WC
				Copper (ppm)	17.19	19.18	WC
				Iron (ppm)	621.75	693.69	WC
				Zinc (ppm)	42.44	47.35	WC
				Manganese (ppm)	85.59	95.49	WC
				Carbohydrates and Fats			
				Fat-Ether Extract (%)	1.14	1.27	WC
				Starch (%)	2.78	3.10	WC
				Sugar- ESC (%)	11.14	12.43	WC
				Water Soluble Carbohydrates %	15.03	16.77	WC
				WSC GM/LB	68.24	76.14	CA

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Customer: **COUNTRY GARDEN FARMS**
Address: 1201 S. GROVER LANE
PALMER, AK 96645

Description: **ALF. SMALL SQUARE CGF 2018**

Sampled: **7/23/2018**
Arrived: **7/23/2018**
Completed: **7/24/2018**
Report Number: **76481**

Certificate of Analysis

TEST	ON RECEIPT	DRY	METHOD	TEST	ON RECEIPT	DRY	METHOD
Dry Matter/Moisture				Energy Calculations			
Dry Matter (%)	88.57		WC	Non Structural Carbohydrate(%)	15.95	18.01	CA
Moisture (%)	11.43		WC	Non Fiber Carbohyd.-NRC2001(%)	22.63	25.55	CA
Protein/Nitrogen Fractions				TDN	83.65	94.45	CA
Crude Protein (%)	10.14	11.45	WC	RELATIVE FEED VALUE	83.91	94.74	CA
ADICP (%)	1.62	1.83	IR	DE-EQUINE (Mcal/lb DM)	1.38	1.56	CA
NDICP Sulfite Free (%)	4.77	5.39	IR	Minerals			
Protein Solubility (%)	26.88	30.35	IR	Ash (%)	4.53	5.11	WC
Fiber Fractions				Calcium (%)	0.38	0.43	WC
Acid Detergent Fiber (%)	29.36	33.15	WC	Phosphorus (%)	0.26	0.29	WC
aNeutral Detergent Fiber (%)	54.85	61.93	WC	Magnesium (%)	0.16	0.18	WC
				Potassium (%)	1.30	1.47	WC
				Sodium (%)	0.03	0.03	WC
				Copper (ppm)	17.78	20.07	WC
				Iron (ppm)	463.58	523.41	WC
				Zinc (ppm)	31.22	35.25	WC
				Manganese (ppm)	56.67	63.98	WC
				Carbohydrates and Fats			
				Fat-Ether Extract (%)	1.20	1.35	WC
				Starch (%)	2.94	3.32	WC
				Sugar- ESC (%)	9.78	11.04	WC
				Water Soluble Carbohydrates %	12.45	14.06	WC
				WSC GM/LB	56.53	63.83	CA

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