



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: **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

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

Associated with or certified by: The National Forage Testing Association; Minnesota Department Of Agriculture- Manure Proficiency Testing;
 American Association of Feed Control Officials – Feed and Pet Food Divisions



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: **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

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

Associated with or certified by: The National Forage Testing Association; Minnesota Department Of Agriculture- Manure Proficiency Testing;
 American Association of Feed Control Officials – Feed and Pet Food Divisions