



FEED AND FORAGES NUTRITIONAL TESTING NOW AVAILABLE AT PDS

WHY CHOOSE PDS?

Local Testing

(Faster Turnaround, Less Shipping)

Advanced NIR Technology

(Accurate and Consistent Results)

Comprehensive Forage Analysis

(Protein, Fiber, Energy, Moisture, and more)

Nitrate Alert Included

TEST COST

Introductory Price

\$53.21

SAMPLE TYPES

- Hay, Dry Hay, Silage, Haylage, Greenfeed (Wheat, Oats, Barley, Triticale, Rye, Corn, Grasses)
- Grains (Corn, Oats, Barley, Wheat)
- Total Mixed Ration (TMR)
- Dried Distillers Grains (DDGs)
- Unsure? Contact pds_tox@usask.ca

SAMPLE SIZE

- Minimum size: 300 g (Snack Ziploc)
- Maximum size: 1 kg (½ Large Ziploc)
- Larger samples tested as 1 kg unless full grinding requested (\$30/kg)
- No visible rocks (samples will be rejected)

Prairie Diagnostic Services (PDS) is proud to offer Feed and Forage Nutritional Analysis—locally performed using state-of-the-art Near Infrared Reflectance Spectroscopy (NIRS).

This fast, non-destructive testing provides accurate insights into key nutritional parameters like **protein, fiber, energy, moisture, and more**. Our robust calibration database—developed in collaboration with Rock River Laboratory, Inc.—ensures consistent, trusted results across a wide variety of feed types.

How to Submit

- Download the submission form from the [PDS website](#) under “Forms” – **NIRS Feed and Forages Nutritional Analysis Submission Form**.
- Select the appropriate Feed Code and Sub-Feed Code from the form.
 - For TMR and DDGs, only the Feed Code is required.
- Enter codes in the NIR Testing Details column next to each sample ID.

Testing Offered:

Comprehensive Nutritional Analysis			
Feed Code:	Sub-Feed Code:		Sample Size:
Hay / Dry Hay	A Wheat	100	Minimum = 0.3 kg (200g)
Silage	B Oats	101	Maximum = 1.0 kg (1000g)
Haylage	C Barley	102	
Greenfeed / FreshCut	D Triticale	103	For samples exceeding the maximum size, only a 1kg subsample will be ground. Please note that PDS is <i>not</i> responsible for result variations due to subsampling. Clients may request that the entire oversized sample be ground for an additional fee of \$30/kg.
Grains*	E Rye	104	
Total Mixed ration (TMR)**	F Corn	105	
Dried Distillers Grain (DDGs)**	G Grasses	106	
Mineral Panel (by ICP-MS)***	MP Panel 1	1	
Mineral Panel (by ICP-MS)***	MP Panel 2	2	
Mineral Panel (by ICP-MS)***	MP Panel 4	7	
<i>Example: Corn Silage = B & 105</i> **Only for Corn, Oats, Barley and Wheat. ***Mineral Panel (by ICP-MS) available upon additional request; additional charges will apply			
NOTE: Nitrate results cannot be directly obtained through NIR predictions. However, the system is designed to flag samples with potential nitrate contamination. Clients may see one of the following messages on their report: “Possible Nitrate-N detected; consider wet chemistry analysis” (estimated >1000 ppm) or “Likely Nitrate-N detected; wet chemistry advised” (estimated >2000 ppm). This notification prompts clients to consider submitting the sample for wet chemical analysis to obtain a quantitative nitrate result.			
For any other sample type submission, please contact us at pds_tox@usask.ca with detailed sample description to determine if it can be tested.			
NOTE: Both the Feed Code and Sub-Feed Code are REQUIRED to be mentioned on the form for NIR Analysis.			

Example

Sample Information				NIR Testing Details		
Sample ID	Sample Description (Detailed)	Grinding provided by PDS? (grinding charge included in test cost)		Feed Code	Sub-Feed Code	Others/Comments
		YES	NO***			
1	ABC123 Corn Silage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	B	105	

Additional Information

- **NIRS Feed and Forages Nutritional Analysis Report Appendix** is available on the PDS website under Services – Feed and Forages – **NIRS Feed and Forages Nutritional Testing**.
- Nitrate alert will be included to prompt the customer to consider running a wet chemical analysis for nitrate to obtain a quantitative result. (Please see appendix)

For further information, email PDS at pds.info@usask.ca. Include Feed and Forages testing in the Subject line.

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