

Prairie Tide Analytical Service Listing – Nutraceuticals & Natural Products

Prairie Tide Analytics offers testing as pertains to the chemical, nutritional and contaminant content of seed, oil, and other raw materials used in the food, beverage, and natural health product industries.

Table 1. Individual Analytical Tests

Test	Method	
Allergens		
Gluten	AOAC 2014.03	
Egg	ELISA	
Milk	ELISA	Please contact PTA for
Mustard	ELISA	pricing.
Peanut	ELISA	
Sesame	ELISA	
Soy	ELISA	
Antinutrients		
Cyanogenic glucosides/Glucosinolates	In house	
Isothiocyanates	In house	
Myrosinase Activity	In house	
Phytic acid	In house	
Total Phenolic Content	AOAC 2017.13	
Antioxidants		
Astaxanthin	FCC	
Ethoxyquin	AOCS Ce 6-86	
Sterols (profile)	In house, HPLC	
Tocopherol Acetate	In house	
Tocopherols (profile)	In house, HPLC	
Colour		
Lovibond	AOCS Cc 13b-45	
Gardner	AOCS Td 1a-64	
Composition		
Oil Content	In house, NMR	
Oil Content in Seed, Meal and Cake	In house, NMR	
Total Oil	AOAC 983.23	
Fatty Acid Composition (mg/g)	AOCS Ce 1i-07, Ce 1j-	07
Fatty Acid Profile (%)	AOCS Ce 1i-07, Ce 1j-	07
With Calculated Iodine Value (g	AOCS Cd 1c-85	
I ₂ /100g)		
Cholesterol	AOCS Ce 12-16	
Ethanol Content (%)	USP	



Density/Specific Gravity		
Density/Specific Gravity	In house	
Bulk Density	USP <616>	
Tap Density	USP <616>	
Elemental Analysis (ICP)	001 <010>	
Single element	AOCS Ca 17-01, Ca 20-99	
Additional elements (per element)	AOC3 Ca 17-01, Ca 20-99	
Microbiology		
Total Aerobic Count	BioLumex (USP; MPN)	
Total Yeast and Mould	BioLumex (USP; MPN)	
	BioLumex	
Pathogen – Staphylococcus aureus		
Pathogen – Escherichia coli	BioLumex	
Pathogen – Pseudomonas aeruginosa	BioLumex	
Pathogen – Salmonella	BioLumex	
Pathogen – Fecal Coliforms/E. coli	BioLumex	
Moisture (Karl Fisher)	In the control of the	
Moisture (Karl Fisher)	In house	
Moisture	AOCS Ca 2b-38	
Moisture (Loss on Drying)	AOCS Ba 2a-38	
Moisture Content in Oil	In house, NMR	
Moisture Content in Seed, Meal and	In house, NMR	
Cake		
Nutritional Labelling		
Calorific Calculation	In house	
Carbohydrate	In house, UV-Vis	
Crude Fibre	In house	
Moisture	AOCS Ba 2a-38	
Total Oil	AOAC 983.23	
Total Sugar	In house, UV-Vis	
Total Protein	In house, LECO	
Total Protein	In house, NIR	
Guaranteed Analysis		
(Fibre/Moisture/Oil/Protein)		
Other		
Ascorbic Palmitate/Vitamin A/Vitamin D	In house	
Carbohydrate (Total and Individual)	In house, NMR	
Orbitide (cyclic peptides)	In house	
Residual Solvents (Class 1/2)	USP <467>	
SDG (Secoisolariciresinol Diglucoside)	In house	
Sugar Content (Brix%)	In house	
Viscosity	In house	
Quality		
Acid Value/Free Fatty Acid	AOCS Ca 5a-40	
Cold Test	AOCS Cc 11-53, USP	
Glycerol Free	In house, NMR	
Glycerol Total	In house, NMR	
Hexane Residues	AOCS Ca 3b-87	



Infrared Absorption (NIR)	In house, NIR	
Insoluble Impurities \	AOCS Ca 3a-46	
lodine Value (g l₂/100g)	AOCS Cd 1d-92	
Melamine	In house, NMR	
Mono& Di Glyercides	AOCS Cd 11b-91	
OSI (Rancimat)	AOCS Cd 12-57	
p-Anisidine Value	AOCS Cd 18-90	
Peroxide Value	AOCS C d 8b-90	
pH	In house	
Phospholipids (Absolute/individual	In house	
values)		
Refractive Index	In house	
Saponification Value	AOCS Cd 3-25	
Screening for Encapsulation	In house	
Specific Gravity	In house, AOCS To 1b-64	
TOTOX Calculation	USP <401>	
Unsaponifiable Matter	AOCS Ca 6a-40, Ca 6b-53	
Water Activity	In house	
Toxins		
Aflatoxin	ELISA	
Deoxynivalenol (Vomitoxin)	ELISA	Please contact PTA for
Fumonisin	ELISA	pricing.
Ochratoxin A	ELISA	-

All standard rates include reporting results within a standard turnaround time. For routine samples, the average turnaround time is 2-3 business days.

ELISA

T-2 Toxin

Other tests available upon request.

For pricing, please request a quote.

If you have any questions, please contact: Martin King (martin.king@prairietide.com)