

Aunir Ingot™ Calibrations for SpectraStar™ XT

World's Largest Independent NIR Calibration Database



a  **KPM**
ANALYTICS brand



INGOT CALIBRATION LIBRARY

- Over 500,000 samples included
- More than 4 million individual data points
- Over 20 years of seasonal, geographical and product variation represented
- Derived from proven ISO 17025 reference data
- Plug and play operation for most sample types

Ingot calibrations from Aunir are an excellent option for anyone needing reliable results from complex sample types such as compound feed, feed ingredients and forages. The Ingot calibrations are the most extensive and robust calibration libraries available and are optimized for Unity Scientific® SpectraStar XT-R instruments.

Based on over 500,000 samples and over 20 years of seasonal, geographical and product variation, Ingot calibrations deliver robust and reliable performance out of the box for a wide variety of sample types. In rare cases where unique samples do not fit the calibrations, customized calibrations are available to ensure exceptional performance. All reference data are from an ISO accredited laboratory for maximum consistency and reliability according to international standards.

POWERED by  INGOT®
Driven by UCal™

Ingot calibrations are available either as complete libraries or as individual product calibrations for cost-effective selection of the optimal calibration options. The next few pages outline the calibration libraries, product types and constituents available.



Animal Feed and Feed Ingredients Library

Moisture

Fat
(Ether extraction)

Fat
(Acid hydrolysis)

Protein

Crude Fibre

Ash

Starch

NDF

NCGD

ADF

COMPOUND FEEDS

Poultry	Ruminant	Swine	Equine	Concentrates	Aqua Feed
Broiler	Beef	Finisher Pig	Racehorse	Poultry	Fresh water
Chick	Sheep	Gestation Sow	Pony	Broiler	Sea water
Duck	Calf	Grower Pig	Horse	Duck	
Game	Dairy	Piglet		Layer	
Goose	Dairy Blends			Ruminant	
Layers	Lamb			Dairy	
Ostrich	Goat			Blend	
Turkey				Swine	
				Pig Finisher	
				Pig Grower	

FEED INGREDIENTS

Cereals	Hi Protein High Oil	High Protein Low Oil	Legumes	Low Protein High Oil	Low Protein Low Oil		Animal Proteins	Milk Powders
Barley	Rape-pulse mix	Corn gluten feed	Beans	Biscuit meal high oil	Citrus	Palm kernel low oil	Fish meal	Dried whey powder
Maize (corn)	Rapeseed expeller	Cotton extract	Peas	Maize (corn) germ meal	Cocoa	Potato products	Meat and bone meal	Skim milk powder
Oats	Soybean	Groundnut extract	Lupins	Palm kernel high oil	Copra	Rice	Blood and plasma	Whole milk powder
Triticale	Sunflower Seeds	Linseed extract	Alfalfa lucerne	Rice bran high oil	Copra extract	Rice bran extract	Feather meal	
Wheat	Cotton seed expeller	Malt residue			Corn gluten feed	Grain screenings	Poultry by-products	
Red Wheat	Linseed expeller	Rape meal extract			Distillery low protein	Sugar beet	Bone Meal	
Sorghum	Whole rapeseed	Soymeal extract			Locust bean	Wheatfeed middling	Crab	
Rye	Sesame expeller	Sunflower extract			Soy hulls	Barley bran	Shrimp	
	Soybean expeller	Sesame meal extract			Oat feed	Maize (corn) meal		
	Whole soybean	Distillery high protein			Oat flour	Biscuit meal low oil		
	Whole linseed				Grass meal	Maize (corn) germ meal		
					Hominy	Shea nut meal		
					Cassava			

Pet Food Library



Moisture

Fat
(Ether extraction)

Fat
(Acid hydrolysis)

Protein

Crude Fibre

Ash

Starch

NDF

NCGD

ADF

PET FEED

Herbivore	Carnivore	Avian
Rabbit	Dog	Parrot
Guinea Pig	Cat	Caged Bird
Hamster	Ferret	
Rodent		

PET FOOD INGREDIENTS

Cereals	Hi Protein High Oil	High Protein Low Oil	Legumes	Low Protein High Oil	Low Protein Low Oil		Animal Proteins	Milk Powders
Barley	Rape-pulse mix	Corn gluten feed	Beans	Biscuit meal high oil	Citrus	Palm ker- nel low oil	Fish meal	Dried whey powder
Maize (corn)	Rapeseed expeller	Cotton extract	Peas	Maize (corn) germ meal	Cocoa	Potato products	Meat and bone meal	Skim milk powder
Oats	Soybean	Groundnut extract	Lupins	Palm kernel high oil	Copra	Rice	Blood and plasma	Whole milk powder
Triticale	Sunflower Seeds	Linseed extract	Alfalfa lucerne	Rice bran high oil	Copra extract	Rice bran extract	Feather meal	
Wheat	Cotton seed expeller	Malt residue			Corn gluten feed	Grain screenings	Poultry by- products	
Red Wheat	Linseed expeller	Rape meal extract			Distillery low protein	Sugar beet	Bone Meal	
Sorghum	Whole rapeseed	Soymeal extract			Locust bean	Wheatfeed middling	Crab	
Rye	Sesame expeller	Sunflower extract			Soy hulls	Barley bran	Shrimp	
	Soybean expeller	Sesame meal extract			Oat feed	Maize (corn) meal		
	Whole soybean	Distillery high protein			Oat flour	Biscuit meal low oil		
	Whole linseed				Grass meal	Maize (corn) germ meal		
					Hominy	Shea nut meal		
					Cassava			

Aqua Feed Library



Moisture

Fat
(Ether extraction)

Fat
(Acid hydrolysis)

Protein

Crude Fibre

Ash

Starch

NDF

NCGD

ADF

AQUA FEED

Fresh water feed
Salt water feed

AQUA FEED INGREDIENTS

Cereals	Hi Protein High Oil	High Protein Low Oil	Legumes	Low Protein High Oil	Low Protein Low Oil		Animal Proteins	Milk Powders
Barley	Rape-pulse mix	Corn gluten feed	Beans	Biscuit meal high oil	Citrus	Palm kernel low oil	Fish meal	Dried whey powder
Maize (corn)	Rapeseed expeller	Cotton extract	Peas	Maize (corn) germ meal	Cocoa	Potato products	Meat and bone meal	Skim milk powder
Oats	Soybean	Groundnut extract	Lupins	Palm kernel high oil	Copra	Rice	Blood and plasma	Whole milk powder
Triticale	Sunflower Seeds	Linseed extract	Alfalfa lucerne	Rice bran high oil	Copra extract	Rice bran extract	Feather meal	
Wheat	Cotton seed expeller	Malt residue			Corn gluten feed	Grain screenings	Poultry by-products	
Red Wheat	Linseed expeller	Rape meal extract			Distillery low protein	Sugar beet	Bone Meal	
Sorghum	Whole rapeseed	Soymeal extract			Locust bean	Wheatfeed middling	Crab	
Rye	Sesame expeller	Sunflower extract			Soy hulls	Barley bran	Shrimp	
	Soybean expeller	Sesame meal extract			Oat feed	Maize (corn) meal		
	Whole soybean	Distillery high protein			Oat flour	Biscuit meal low oil		
	Whole linseed				Grass meal	Maize (corn) germ meal		
					Hominy	Shea nut meal		
					Cassava			

Forage Calibration Library (Dry)

Moisture	NDF	Sugar (total)
Ash	ADF	Starch
Protein	ADL	DMD
Fiber Digestibility	OMD	Sugar (reducing)

DRIED FORAGE

Maize (Corn) Silage	Grass Silage
Whole Maize (Corn) Plant	Fresh Grass
Alfalfa	Hay

Forage Calibration Library (Wet)

Dry Matter	Sugar	Lactic (g/kg)
Ash Protein	Oil	VFA (g/kg)
Fiber Digestibility	ADF	Ammonia
NDF	pH	Starch
D-Value		NCDG

WET FORAGE

Grass Silage	Fresh Grass
Maize (Corn) Silage	Hay
Whole Crop Silage	

Animal Protein Library

Moisture	Fat (Acid hydrolysis)
Fat (Ether extract)	Ash
Protein	Crude Fibre

ANIMAL PROTEINS

Land Animals		Marine Animals
Meat Meal	Poultry Meal	Parrot
Blood Meal	Feather meal	Caged Bird
Meat and bone meal		

Ordering Information

Aunir Ingot calibrations from KPM Analytics are customized for outstanding performance out of the box on your SpectraStar analyzer. The Aunir Ingot libraries are available exclusively for SpectraStar XT-R extended wavelength range analyzers, and special pricing is available if purchased with a new analyzer.

CALIBRATION OPTIONS

The Ingot calibrations are available as a complete library (level 4), or as individual product calibrations (level 1).

Ingot Calibration Libraries:

- Feed and Feed Ingredients
- Dry Forage
- Pet Food and Ingredients
- Wet Forage
- Aqua Feed and Ingredients
- Animal Meals

Part Number	Description
US-INGT-0001	Ingot Level 1 calibration with XT-R analyzer. Single product - must specify.
US-INGT-0004	Ingot Level 4 calibration with XT-R analyzer. Calibration package - must specify.
US-INGT-0010	Complete set of six Ingot Level 4 calibration libraries for the SpectaStar XT-R.

Learn more at www.kpmanalytics.com



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