



The QTA® system has the broad capabilities of a laboratory instrument, yet remains easy to use at your site because all development, data processing, monitoring and maintenance is performed at our central location.

QTA Capabilities

General chemical: Raw material identification/confirmation of a wide variety of materials;

Viscosity, particle size on various chemicals; Methyl esters: IV, AV, viscosity
Extent of reaction for esters, ethoxylates, degree of polymerization, sulfation, etc.
Plastics & resins: moisture, viscosity, extractables, monomer content
Oils & lubricants: IV, AV, viscosity, oxidation, nitration, phosphorus

Paints: Density, viscosity, gloss, tint strength, pH, solids content, solvent concentrations

Fats & Oils: Soy oil: IV, FFA, phosphorus, moisture; Tallow & grease: IV, FFA, insolubles, polyunsaturates, moisture, color

Other fats & oils: mono-glycerides, free glycerin, FFA, IV, SAP, ester value, trans fat

Biodiesel B100: moisture, acid value, cloud point, total and free glycerin, mono-, di-, tri- glycerides

Foods: Sauces (ketchup, hot sauce, mustard, etc.) & jellies: sugar, viscosity, brix, acidity, moisture, solids content

Beer: Ethanol content; Coffee bean: moisture, color. Caffeine is under development

Corn syrup: Fructose, Dextrose, Dextrose equivalent, solids, DP2 - 4, color, conductivity, pH

Molasses: fermentable sugars; Fat & solids in cheese and eggs

Yeast: solids, moisture, protein, phosphate, trehalose, vitamins

Bakery blends: flour content, sugars, whey, oil, glyceride profile, preservative content

Oat bran: moisture, fiber, beta-glucan

Meats: Various pork products: Fat, moisture, protein

Flours & flour mixes:

Wheat flour: Fat, protein, ash, amylose, vitamins (niacin, riboflavin, thiamin, retinol, ascorbic, etc.)

Soy flour: oil, protein, moisture

Grains & Seeds:

fat, protein, oil, moisture on all the major grains & seeds, starch on corn, sugars, isoflavones, fiber, NSI on soybeans, amino acid profiles on corn and soybeans, fatty acid profiles on soybeans, canola, sunflower, flax, falling number, wet gluten, hardness, gluten index on wheat chlorophyll & gluconsinolates on canola, erucic acid in canola & mustard, FFA and oil in rice

Cotton hulls, meal, seed: oil, moisture, protein, lint,

Soymeal: fiber, moisture, protein, oil

Corn processing (including EtOH production): Milled corn: moisture, oil, protein;

Corn Fiber: oil, starch;

Corn mash & fermentation tank: Sugars (glucose, DP2 - 4+), Ethanol, glycerol, lactic acid, pH, starch, solids; DDGS: fat, moisture, protein

Pesticides and crop production:

A wide variety of active ingredient concentrations in a wide variety of formulations (liquids, granules, powders,...), including multiple actives on granules

Active ingredient concentrations on treated seeds

Active ingredient concentrations on fertilizer granules

Pesticide formulation component concentrations (surfactants, solvents, etc.)

Pesticide pH, specific gravity, particle size

Fertilizer granules: P, N, K, Fe, Mn

UAN solution: N, urea, free ammonia, ammonium nitrate, AN nitrogen, urea nitrogen, specific gravity

Soil: P, K, Mg, Ca, S, B, Zn, organics, pH, buffer, cation exchange capability

To have a QTA® solution customized for your specific need, please contact:

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