



Fast

Now Offering... The QTA[®] System with Flexible Analysis Packages

Not all biodiesel is the same, and neither should your choice for quality testing. QTA recognizes the different needs of different production facilities and is now proud to offer Flexible Analysis Packages. By choosing one of our Platinum, Olympic or A la Carte packages you are free to decide what type of quality testing best fits your business. Call today for more information on how you can get started using QTA's unique analytical service for your biodiesel production.

Step One: Purchase a QTA Instrument

- ✓ Own your own FT-IR Spectrometer with the comfort of letting QTA manage the material calibrations.
- ✓ Add an optional annual maintenance package



Easy

Step Two: Pick an Analysis Package: Platinum, Olympic or A la Carte

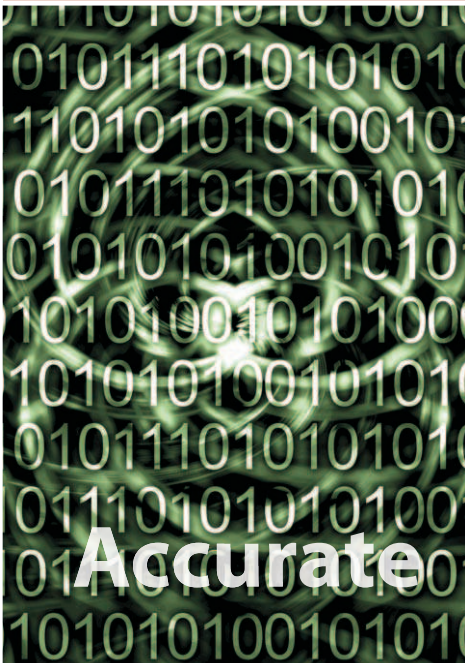
Platinum Series

- ✓ Unlimited number of samples
- ✓ No long term commitments
- ✓ Pick only the materials you need to analyze
- ✓ 24 x 7 Customer Support

Packages	Number of Material Groups
Platinum 1	1
Platinum 2	2
Platinum 3	3
Platinum 4	4
Platinum 5	5
Platinum 6	6

QTA Material Groups

B100 NA	In-Process	B100 EN	Oil	Crude Glycerin	Methanol
Free Glycerin, %	Mono glycerides, %	Ester, %	FFA, %	MeOH, %	Moisture, %
Total Glycerin, %	Diglycerides, %	Iodine Value	Moisture, %	Glycerin, %	
Cloud Point, deg C	Triglycerides, %	Density, Kg/m3		Ash, %	
Acid Number, mg KOH/g	Bound Glycerin, %	Viscosity, mm2/sec		Moisture, %	
Moisture, %		CFPP, deg C			
Methanol, %		Mono glycerides, %			
		Diglycerides, %			
		Triglycerides, %			



Accurate



Powerful Analytics...
made quick & easy!

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Step Two continued...

Olympic Packages

- ✓ Pick the number of samples you want to analyze per month or per quarter
- ✓ No long term commitments
- ✓ Daytime Customer Support*

Gold:	360 Samples per month
Silver:	200 Samples per month
Bronze:	100 Samples per month

*Daytime Customer Service is Monday - Friday 8 am - 5 pm EST, or \$100 per after hours call. A sample is defined as a list of traits within a Material Group. i.e. A B100 sample consists of the following traits: Total Glycerin, Free Glycerin, Moisture, Methanol, Acid Number and Cloud Point. Cognis is not responsible for overages. Excess sample rates vary by package.

A la Carte

- ✓ Great for limited production facilities
- ✓ Pay only for the traits you need
- ✓ No commitment necessary
- ✓ Available in 100 trait bundles
- ✓ Trait Bundles are good for one year
- ✓ Daytime Customer Support*

Traits are the individual components being analyzed within a given material group.
 Example: Total Glycerin content in B100 is one trait property
 Acid Number of B100 is one trait property

QTA® System: Biodiesel Capabilities

	Method	R range	Std. error		Method	R range	Std. error
B100 (NA)				Methanol			
Free Glycerin, %	ASTM D6584	0 - 0.03	0.0035	Moisture, %	KF Moisture	0 - 20	0.5
Total Glycerin, %	ASTM D6584	0 - 0.50	0.03	B100 (EN)			
Cloud Point, deg C	ASTM D2500	-6 - 12	2	Ester, %	EN14103	93 - 100	0.45
Acid Number, mg KOH/g	ASTM D664	0 - 1	0.08	Iodine Value	AOCS Cd 1b-87	46 - 135	1.1
Moisture, %	ASTM D6304	0 - 0.1	0.007	Density, Kg ³ /m	ASTM D4052/D1217	876 - 890	0.5
Methanol, %	EN141110	0 - 3	0.06	Viscosity, mm ² /s	ASTM D445	4 - 5.3	0.1
In-Process				CFPP, deg C	ASTM D6371	-8 - 11	1
Monoglycerides, %	ASTM D6584	0 - 3	0.11	Monoglycerides, %	ASTM D6584	0.1 - 0.9	0.06
Diglycerides, %	ASTM D6584	0 - 5	0.1	Diglycerides, %	ASTM D6584	0.1 - 0.55	0.04
Tryglycerides, %	ASTM D6584	0 - 7.5	0.15	Triglycerides, %	ASTM D6584	0.1 - 0.24	0.03
Incoming Oil				Crude Glycerin			
FFA, %	AOCS Ca 5a-40	0 - 14	0.18	MeOH, %	GC/FID	0 - 20	0.28
Moisture, %	KF Moisture	0 - 0.65	0.044	Glycerin, %	AOCS Ea 6-94	64 - 99	0.9
				Ash, %	AOCS Ea 2-38	0 - 8.5	0.37
				Moisture, %	AOCS Ea 8-58	0.5 - 6.5	0.38

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