MULTITEK

APPLICATION TESTING

The Antek Apps Lab at PAC is at your service! The laboratory is outfitted with a wide variety of instrument configurations, ready to assist users with method development. Put our years of experience to work for you.

One standard application is provided at no charge with purchase of every MultiTek instrument. However, some user labs apply multiple test methods and sampling configurations. Our skilled chemists can characterize your samples and develop analytical set-up and operating procedures that optimize the performance of your Antek MultiTek Elemental Analyzer. The MultiTek Application Testing Program is additional application testing performed at the factory on the instrument to be delivered. The MultiTek Standard and Premium Application Testing are performed with a sample of known (reference) or accepted reference value (ASTM PTP program sample) of PAC’s choice using one calibration range and one sample. A QC sample (~5 ml or ~5 g) will be provided. The MultiTek Custom Application Testing is performed to custom requirements. For all, a report will be prepared stating the method parameters, sample value, and testing results. In addition, the application will be validated on-site.

MultiTek Standard Application Testing

Sulfur: D5453, Nitrogen D5176, D5762, D4629
• Sulfur ASTM D5453 Gasoline within 0 – 100 mg/kg S
• Sulfur ASTM D5453 Diesel within 0 – 20 mg/kg
• Nitrogen ASTM D5176 water within 0 – 10,000 mg/kg
• Nitrogen ASTM D5762 Heavy Oil within 0 – 10,000 mg/kg
• Nitrogen ASTM D4629 Liquid Hydrocarbons within 0.3 – 100 mg/kg
• Sulfur ASTM D5453 Jet Fuel within 0 – 3000 mg/kg
• Sulfur ASTM D5453 Biodiesel within 0 – 25 mg/kg

MultiTek Premium Application Testing

Sulfur: D6667, D7183, Nitrogen D6069, D7184, Halides D7359
• Sulfur ASTM D6667 LPG within 1 – 100 mg/kg in C3/C4
• Sulfur ASTM D7183 Aromatics within 0.5-100 mg/kg in toluene or xylene (PN Nitrogen LPG within 1-300 mg/kg in C3/C4)
• Nitrogen in Polymers within 0-500 mg/kg
• Halides LPG within 1-300 mg/kg F/Cl in C3/C4
• Halides ASTM D7359 Aromatics within 0.5-50 mg/kg F/Cl in toluene or xylene
• Trace Nitrogen ASTM D6069/D7184 Nitrogen within 0.1-2 mg/kg in toluene or xylene

MultiTek Custom Application Testing

Examples of customized elemental applications are:
• Nitrogen in Food
• Halides in Coal
• Fluoride in Aluminium Oxide
Contact PAC for further information.
MULTITEK SOFTWARE

Saves time and simplifies testing, because one calibration curve is applicable to a wide range of samples for a single run. No more trial and error, i.e., trying to get the right calibration range for a specific sample, or trying different calibration curves for different ranges. MultiTek® streamlines and simplifies the entire process.

MultiTek 21 CFR part 11 Computer Bundle

The MultiTek 21 CFR part 11 Computer Bundle includes the MultiTek 21 CFR part 11 edition software. This is for laboratories that are required to maintain 21 CFR part 11 compliance.

Features to help support compliance include:
- SQL Server password protection
- User IT-administrator must change password after logging in the first time
- Strong password criteria: => 7 characters, 1 upper case, 1 numeric and 1 special character required
- Enhanced User management including required electronic signatures and users assigned to specific instruments
- Account lockout after 3 successive failed login attempts
- Password change interval set by IT-administrator; password reset only by IT-administrator
- Export/Import actions recorded in the Audit trail log
- Method recalculations, Results reprocessing, Results submit and Results Review/Approve actions recorded in Audit trail log
- Results changed to and marked read-only after approval
- Methods marked as read-only after all latest calibration results are approved
- Software auto-lock timeout set only by the IT-administrator
- Results printed with electronic signature in secure pdf file

MULTITEK ACCESSORIES

MODEL 735
Controlled Rate Sample Drive provides reproducible, controlled rate of sample introduction into analyzers by syringe or sample boat.

ACCURA
Gas/Liquified Gas Sampling Inlet System ensures reproducible injection of gases and liquified petroleum gases (LPG).

MODEL 737-M
Temperature Programmable Inlet Furnace with turbo gas control for analysis of larger solid samples and viscous liquids allows for the optimization of sample combustion and gas conservation.

MODEL 740
Multi-Matrix Sampler boat inlet system allows introduction of liquids and solids; thermoelectronically cooled chamber reduces time between sample runs.

MODEL 748
Robotic Liquid A high-performance solution for your automated sample injection needs. The autosampler is robotically operated, syringe-based, vertical injection sampler for use with MultiTek® and Multi-Matrix or Boat Inlet, handles 216 samples.