

BIOFUEL TESTING, INSPECTION AND R&D

From feedstocks to advance bioheating fuels





Biofuels testing and inspection services

Intertek Caleb Brett provides an extensive range of services in biofuels quality control, contamination analysis, quality confirmation, trace residual analysis and related quality services. We follow all the international standards such as ASTM, IP, API, EN, ISO and contribute to their development through involvement of our global experts in the industry technical committees.

Intertek Caleb Brett services also apply to the biofuels production, storage and distribution assets. Throughout the lifecycle of the plant or storage facility, from design, construction to operation and decommissioning, Intertek brings technical expertise in Health, Safety, Environment, equipment and materials inspection, asset integrity management, NDT, metering and calibration, management systems, and training services.

Intertek provides a wide range of services to support the world's biofuels industries, with 24/7 capabilities offered on a global basis.

Biofuel related services include:

- Quality Control during production, release and custody transfer
- Troubleshooting and contamination support
- Blending and fuel specification additive treatments
- Bulk Cargo sampling and inspection
- Feedstock and raw materials evaluation
- Quality oversight programs
- Microbial infestation control
- and more

Biofuel laboratories capabilities include:

Chromatography:

- Gas Chromatography
- Liquid Chromatography
- Ion Chromatography
- HPLC/UPLC
- Mass Spectrometry
- GC/MS
- GC/ICP/MS
- LC/MS, LC-MS/MS

Immunochemistry:

- Immunoassays (ELISA, ECL)
- Cell-based Immunogenicity

Assays:

- Vibrational Spectroscopy
- FTIR, NIR
- ATR-FTIR
- Raman
- XRF, XRD

Thermal Analysis:

- TGA, DSC, TMA, DTG

Elemental Analysis:

- ICP (MS & OES), AA

Surface Microscopy:

- SEM, AFM
- TEM
- XPS
- EDXA
- SSIMS
- Optical

Structural Analysis:

- NMR

Physical Properties Testing:

- ASTM, other

Intertek supports clients working with a wide range of Biofuels:

Biofuel Products:

- Biodiesel, Ester
- Biogas
- Biomass
- Butanol
- Ethanol
- Ether ETBE
- MTBE
- Renewable Crude Oil
- Renewable Diesel, Hydrocracker
- Renewable Gasoline
- Renewable Jet

Biofuel Feedstocks:

- Algae
- Animal Fats
- Corn
- Grasses
- Sugars
- Municipal Solid Waste
- Vegetable Oil
- Wood
- Other feedstocks

Biofuel Technology Support:

- Catalysis
- Cellulosic
- Fermentation
- Gasification
- Hydrolysis
- Hydroprocessing
- Synthetic Biology
- Additional Technologies

Biofuel Sustainability:

- Sustainability Auditing
- Verification
- Certification to 2BSvs, ISCC, RSPO and other standards

Biodiesel	ASTM D 6751, EN 14214, BQ 9000, ASTM D 7467
Ethanol	ASTM D 4806, ASTM D 5798, EN 15376
Bioheating	ASTM D 396, EN 14213
Biomass	AOCS, AAOC, FOSFA, GAFTA
Aviation	ASTM D 1655, ASTM D 7566, DEF STAN 91-91, JIG, MIL-DTL-83122 (JP8), MIL-DTL-5624 (JP5)
Transportation	Colonial, Explorer, Magellan, MARPOL, ISO
Sustainability	2BSvs, ISCC, RSPO, other standards

Intertek's extensive analytical testing capabilities and R&D expertise are available on a global basis to the biofuels industry.



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