



FUEL



BIODIESEL

SUGGESTED SAMPLE SIZE (MINIMUM) FEE

GLYCERIN PACKAGE 100mL **\$350.00**

Glycerin, lbs/gallon, MONG – Material Organic, Non-Glycerin, Ash, Specific Gravity, Moisture by Karl Fisher, Methanol

ETHANOL

ETHANOL TESTING (D4806 – DENATURED ETHANOL) **\$260.00**

ASTM D5501 Ethanol & Methanol by GC

ASTM D7319 Chloride & Sulfate by IC

ASTM D6423 pH

ASTM E1064 Water

ASTM D381 Gum (washed/unwashed)

ASTM D7795 Acidity

ASTM D5453 Sulfur

ASTM E1688 Copper

ASTM D4052 Specific Gravity

Hydrometer Proof

VISUAL Appearance

Single Hazmatpac Kit **\$25.00**

Double Hazmatpac Kit **\$35.00**

ETHANOL TESTING (D5798 – E85) **\$325.00**

ASTM D5501 Ethanol & Methanol by GC

ASTM D7328 Chloride & Sulfate by IC

ASTM D6423 pH

ASTM E1064 Water

ASTM D381 Gum (washed/unwashed)

ASTM D1613 Acidity

ASTM D5453 Sulfur

ASTM D4052 Specific Gravity

Hydrometer Proof

VISUAL Appearance

ASTM D5191 Vapor pressure

ASTM E1688 Copper

ETHANOL TESTING-EUROPEAN PACKAGE (EN15376) **\$445.00**

EN 15721 Methanol

EN 15721 Ethanol and Higher Alcohols

EN 15721 Volatile Impurities

EN 15489 Water

EN 15492 Sulfate

EN 15492 Chloride

EN 15488 Copper

EN 15491 Acidity

EN 15486 Sulfur



EN 15769	Visual Appearance
EN 15691	Involatile Material
EN 15487	Phosphorus
EN 15938	Conductance

ETHANOL TESTING-CANADIAN PACKAGE **\$713.00**

ASTM D1125	Conductance
ASTM D3231	Phosphorus
ASTM D381	Washed Gum
ASTM D1613	Acidity
ASTM D6423	pHe
ASTM D7319	Chloride & Sulfate by IC
ASTM D1688	Copper
ASTM D5453	Sulfur
ASTM E1064	Moisture
ASTM D4052	Specific Gravity
NACE TM-0172	Iron Corrosion, after blending
CAN/CGSB-3.0 No. 14.3	Benzene & Total Aromatics
CAN/CGSB-3.0 No. 14.3	Ethanol, Methanol & Total Higher Alcohols

ETHANOL PRICING – INDIVIDUAL COMPONENTS

ASTM D5501	Ethanol & Methanol by GC	\$110.00
ASTM D7319	Chloride & Existent Sulfate by IC	\$55.00
ASTM D6423	pHe	\$15.00
ASTM E1064	Water	\$35.00
ASTM D381	Gum (washed/unwashed)	\$35.00
ASTM D1613	Acidity	\$35.00
ASTM D7795	Acidity	\$35.00
ASTM D5453	Sulfur	\$60.00
ASTM D4052	Specific Gravity	\$35.00
Hydrometer	Proof	\$20.00
ASTM D5191	Vapor Pressure	\$65.00
ASTM E1688	Copper	\$60.00
ASTM D7667	Silver Corrosion	\$60.00
ASTM D1722	Water Miscibility	\$15.00
ASTM D7319	Potential Sulfate	\$40.00
EN 15487	Phosphorus	\$21.50
ASTM D3231	Phosphorus	\$27.00
ASTM D156	Saybolt Color	\$45.00
ASTM D1125	Conductance	\$20.00
ASTM D7548	Iron Corrosion	\$90.00
CAN/CGSB-3.0-14.3	Canadian Hydrocarbons	\$325.00

DENATURANT TESTING – CALIFORNIA AIR RESOURCE BOARD (CARB) **\$325.00**

ASTM D5580	Aromatics and Benzene
ASTM D6650	Olefins
ASTM D5453	Sulfur



ASTM D5191	Vapor Pressure
ASTM D4052	Specific Gravity
ASTM D86	Distillation Curve to include: initial boiling point 10% recovery, 50% recovery, 90% recovery and end point.

INDIVIDUAL DENATURANT COMPONENTS

ASTM D5580	Aromatics	\$150.00
ASTM D6650	Olefins	\$150.00
ASTM D5453	Sulfur	\$60.00
ASTM D5191	Vapor Pressure	\$65.00
ASTM D4052	Specific Gravity	\$35.00
ASTM D86	Distillation Curve to include: initial boiling point 10% recovery, 90% recovery and end point.	\$90.00
NACE 0172	Iron Corrosion	\$90.00

BIOGAS

Methane (tedlar bag)	\$60.00
Supplies (tedlar bag)	\$15.00

FEED TESTING

SUGGESTED SAMPLE SIZE (MINIMUM) FEE

DRIED DISTILLERS GRAIN WITH SOLUBLES (DDGS) PACKAGE 250g **\$64.00**

Moisture, Crude Protein, Crude Fat, Acid Detergent Fiber (ADF), Crude Fiber, Neutral Detergent Fiber (NDF), Ash, Color (L* Value), Total Digestible Nutrients (TDN), Net Energies (NEL, NEM, NEG), Digestible Energy, Metabolizable Energy, Sulfur, Phosphorus, Potassium, Magnesium, Manganese, Copper, Calcium, Sodium, Iron, Zinc

WET DISTILLERS GRAIN WITH SOLUBLES (WDGS) PACKAGE 250g **\$64.00**

Moisture, Crude Protein, Crude Fat, Acid Detergent Fiber (ADF), Crude Fiber, Neutral Detergent Fiber (NDF), Ash, Total Digestible Nutrients (TDN), Net Energies (NEL, NEM, NEG), Digestible Energy, Metabolizable Energy, Sulfur, Phosphorus, Potassium, Magnesium, Manganese, Copper, Calcium, Sodium, Iron, Zinc

SYRUP PACKAGE 250g **\$52.00**

Moisture, Crude Protein, Acid Detergent Fiber (ADF), Ash, Total Digestible Nutrients (TDN), Net Energies (NEL, NEM, NEG), Digestible Energy, Metabolizable Energy, Acid Hydrolysis Fat, Sulfur, Phosphorus, Potassium, Magnesium, Manganese, Calcium, Sodium, Iron, Zinc

CORN PACKAGE 250g **\$65.00**

Moisture, Crude Protein, Crude Fat, Total Starch



CORN PACKAGE WITHOUT STARCH	100g	\$29.00
Moisture, Crude Protein, Crude Fat		
CORN QA/QC PACKAGE	50g	\$53.00
Moisture, Crude Protein, Total Starch		
CORN QA/QC PACKAGE	50g	\$17.00
Moisture, Crude Protein		
STARCH	10g	\$36.00
CORN OIL		
MIU	25mL	\$55.00
Sulfur	25mL	\$60.00
Phosphorus	25mL	\$75.00
FFA	25mL	\$30.00
KF Moisture	25mL	\$30.00
MASH PACKAGE	150g	\$100.00
Conductivity, Zinc, Potassium, pH, Copper, Phosphorus, Ammonical-N, Manganese, Sulfur, Nitrogen, Sodium, Sulfate, TKN, Calcium, Sulfite		
AMINO ACID PROFILE PACKAGE		
(Requires Protein)	20g ground	\$285.00
Aspartic Acid, Valine, Histidine, Threonine, Methionine, Lysine, Serine, Isoleucine, Agrinine, Glutamic Acid, Leucine, Proline, Glycine, Tyrosine, Cystine, Alanine, Phenylalanine, Tryptophan		
ANTIBIOTIC RESIDUES (LC/MS/MS)	100g per test	
(For formulations, we must have expected values)		
Chlortetracycline residue, Doxycycline residue Erythromycin residue, Oxytetracycline residue, Penicillin residue, Streptomycin residue, Tetracycline residue, Tylosin residue, Virginiamycin residue		
Any one (1) of the above		\$150.00
Any two (2) of the above		\$220.00
Any three (3) of the above		\$310.00
Full Screen (as many as are available)		\$550.00
MYCOTOXIN ANALYSIS BY LC/MS/MS		
Aflatoxin (B1, B2, G1, G2)	100g	\$75.00
Aflatoxin (M1)	100g	\$75.00
DON (Vomitoxin)	100g	\$75.00
Fumonisin (B1, B2, B3)	100g	\$75.00
Ochratoxin A	100g	\$75.00
T2 Toxin	100g	\$75.00
Zearalenone	100g	\$75.00
Full Screen (except M1)	100g	\$260.00
Patulin (not included in Full Screen)	100g	\$75.00



SUGGESTED SAMPLE SIZE (MINIMUM)

FEE

PETROLEUM CONTAMINATION**(UNDERGROUND STORAGE TANKS AND SURFACE SPILLS)**

OA-1 (BTEX, Hexane, MTBE and

TPH for gasoline

3 - 40mL Vials

8oz. jar

Water: **\$75.00**Soil: **\$75.00**

OA-2 (as gasoline, diesel, waste oil)

3L

Water: **\$85.00**

8oz. jar

Soil: **\$85.00**

OA-1 & OA-2 Package

3L & 3 - 40mL Vials

Water: **\$140.00**

8oz. jar

Soil: **\$140.00**

Gasoline-range Organics (GRO)

3 - 40mL Vials

Water: **\$85.00**

8oz. jar

Soil: **\$85.00**

Diesel-range Organics (DRO)

3L

Water: **\$110.00**

8oz. jar

Soil: **\$110.00****WASTE OIL/PETROLEUM**

BTUs

100g

\$40.00

Flash Point (Closed Cup)

100g

\$60.00

Total Halogens (as Chlorine)

250mL

\$110.00**USED OIL PACKAGE**

500mL

\$150.00

Total Halogens, Arsenic, Cadmium, Chromium, Flash Point, Lead

NEW OIL PACKAGE

250mL

\$130.00

BTU, Specific Gravity, Sulfur, Moisture

FUEL FINGERPRINT

150mL

\$90.00**FUEL OIL PACKAGE**

250mL

\$114.75

Sulfur, BTU, Low & High Heating Value, Specific Gravity

SULFUR (ASTM D5453)

25g

\$60.00**INDIVIDUAL ANALYSIS**

AOM/OSI (Oxidation Stability Index)

100g

\$85.00

British Thermal Units (BTU)

100g

\$45.00

Distillation Range

100mL

\$90.00

Moisture (Karl Fischer)

50mL

\$35.00

API Specific Gravity

100mL

\$35.00

Specific Gravity

100mL

\$35.00

Sulfur

25mL

\$60.00

Flashpoint

100mL

\$60.00

▶ F.O.R. — Fee On Request

▶ Client responsible for sample shipment