



## Certificate of Composition

### Biodiesel D6584 Kit

**Agilent Part Number: 5190-1408**

**Sample Lot Number: N083753**

**This is a calibration kit for ASTM Method D6584. This kit contains five individual calibration solutions and two internal standard solutions.**

#### Neat Material

#### Purity and/or Grade

1,3-Diolein (CAS NO.: 2465-32-9)	99.1%	
Glycerol (CAS NO.: 56-81-5)	99.9%	
Monoolein (CAS NO.: 111-03-5)	99.0%	
Triolein (CAS NO.: 122-32-7)	99.0%	
Butanetriol (CAS NO.: 42890-76-6)	99.7%	
Tricaprin (CAS NO.: 621-71-6)	100%	
Pyridine (CAS NO.: 110-86-1)	99.9%	Anhydrous

#### Solutions

##### 1. ASTM D6584 Standard Solution 1, 1 x 1ml

**Lot No. CT-0183**

###### Neat Material

###### Concentration

1,3-Diolein	50.1 µg/ml
Glycerol	5.02 µg/ml
Monoolein	100.3 µg/ml
Triolein	50.2 µg/ml

**Solvent:** Pyridine

##### 2. ASTM D6584 Standard Solution 2, 1 x 1ml

**Lot No. CT-0184**

###### Neat Material

###### Concentration

1,3-Diolein	100.3 µg/ml
Glycerol	15.1 µg/ml
Monoolein	250.6 µg/ml
Triolein	100.4 µg/ml

**Solvent:** Pyridine

<p><b>3. ASTM D6584 Standard Solution 3, 1 x 1ml</b>  <b>Neat Material</b>            1,3-Diolein            Glycerol            Monoolein            Triolein  <b>Solvent:</b> Pyridine</p>	<p><b>Lot No. CT-0185</b>  <b>Concentration</b>            200.6 µg/ml            25.1 µg/ml            501.3 µg/ml            200.9 µg/ml</p>
<p><b>4. ASTM D6584 Standard Solution 4, 1 x 1ml</b>  <b>Neat Material</b>            1,3-Diolein            Glycerol            Monoolein            Triolein  <b>Solvent:</b> Pyridine</p>	<p><b>Lot No. CT-0186</b>  <b>Concentration</b>            351.0 µg/ml            35.1 µg/ml            751.9 µg/ml            351.5 µg/ml</p>
<p><b>5. ASTM D6584 Standard Solution 5, 1 x 1ml</b>  <b>Neat Material</b>            1,3-Diolein            Glycerol            Monoolein            Triolein  <b>Solvent:</b> Pyridine</p>	<p><b>Lot No. CT-0187</b>  <b>Concentration</b>            501.4 µg/ml            50.2 µg/ml            1003 µg/ml            502.2 µg/ml</p>
<p><b>6. Butanetriol Internal Standard #1, 1 x 5ml</b>  <b>Neat Material</b>            Butanetriol  <b>Solvent:</b> Pyridine</p>	<p><b>Lot No. CT-0188</b>  <b>Concentration</b>            1004 µg/ml</p>
<p><b>7. Tricaprin Internal Standard #2, 1 x 5ml</b>  <b>Neat Material</b>            Tricaprin  <b>Solvent:</b> Pyridine</p>	<p><b>Lot No. CT-0189</b>  <b>Concentration</b>            8013 µg/ml</p>

**Traceability:**

These standards have been produced gravimetrically using ISO9001 quality procedures. NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware.

**Storage Temperature: Store Refrigerated (2° - 8°C)**

**Date of Manufacture: 08 February 2019**

**Date of Expiration: 31 August 2020**

  
 Monica Bourgeois  
 QMS Representative