

## QC Data Worksheet for CAI GGA

Production: MWG

Lot #'s		Source	QC Measurements	Guideline	Results	Pass/Fail?
GGA Lot ID	110317A1X	CAI	DI Water Conductivity	<1 µmhos/cm	0.06	Pass
Glucose	P188-500	Fisher	Balance Ref Weigh	300.0000	299.9995	Pass
Glutamic Acid	47211	Fisher	Glutamic	300	300.10	Pass
Expiration Date	3/1/2013		Pipette #1	9.5 +/-0.475	9.47	Pass
			COD Preproduction	303.00	243-330	Pass
Culture tubes	24-0004-003	Ind	Sterility tape Black?	YES	YES	Pass
Closures	15137720	ILT	HPC Sterile	0 CFU/ml	0 CFU/ml	Pass
R2A Agar	218263	Fisher	Glucose	300	300.5	Pass

### Instructions for use: Single Strength GGA Standard

1. Carefully open vial by unscrewing cap.
2. Quantitatively transfer entire vial contents into a seeded 300ml BOD<sub>5</sub> bottle. There is enough material in each vial for one (1) GGA Standard. Rinse the empty vial with a few milliliters of the BOD<sub>5</sub> dilution water for best results.
3. Seed and setup BOD<sub>5</sub> per your approved procedure.
4. Calculate the BOD<sub>5</sub>. The result should be 198 +/- 30 mg/L.
5. If results fall outside this range, identify and correct the anomaly.

### Calculating BOD<sub>5</sub> results from COD and TOC:

A known WP Demand samples was purchased from Wibby Environmental (Lot# 8097-07). The certified values were as follows:

1. BOD<sub>5</sub>            124
2. COD             195
3. TOC             73.3

From this data, we can calculate BOD<sub>5</sub> as follows:

1. COD (195x) = BOD (124)    x= 0.634
2. TOC(73.3x)=BOD(124)       x=1.69

Using these factors, we test our GGA Material for COD and TOC.

So for Lot# **110317A1X** the BOD would be:

1. TOC measured 114. So 114x1.69 = 193
2. COD measured 317. So 317 x 0.64 = 203

The acceptance range is 198 +/- 30. The material is acceptable for use.

