QC Data Worksheet for CAI GGA

Production: MWG
9-30-2011

Lot #'s		Source	QC Measurements	Guideline	Results	Pass/Fail?
GGA Lot ID	110930A1X	CAI	DI Water Conductivit	<1 µmhos/cm	0.05	**Pass**
Glucose	P188-500	Fisher	Balance Ref Weigh	300.0000	299.9995	**Pass**
Glutamic Acid	47211	Fisher	Glutamic	300	300.10	**Pass**
Expiration Date	9/30/2013		Pipette #1	6+/- 0.3	6.10	**Pass**
			COD Preproduction	303.00	243-330	**Pass**
Culture tubes	24-0004-003	CHASE	Steriliy 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_5 bottle. There is enough material in each vial for one (1) GGA Standard. Rinse the empty vial with a few milliliters of the BOD_5 dilution water for best results.
3. Seed and setup BOD_5 per your approved procedure.
4. Calculate the BOD_5. The result should be 198 +/- 30 mg/L.
5. If results fall outside this range, identify and correct the anomoly.

Calculating BOD_5 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_5 124
2. COD 195
3. TOC 73.3

From this data, we can calculate BOD_5 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# 110930A1X the BOD would be:
1. TOC measured 114. So 119x1.69 = 193
2. COD measured 305. So 288 x 0.64 = 210

The acceptance range is 198 +/- 30. The