

QC Data Worksheet for COD Tube Product.

Date: 10-27-2011 Production: MWG
1500 PPM Tubes

Lot #'s		Source	QC Measurements	Guideline	Results	
Digestion Reagent	111027A	CAI	DI Water Conductivity	<1 µmhos/cm	0.05	
Potassium Dichromate	P-1282	Spectrum	Balance Ref Weigh	200G	200.00	
Silver Sulfate	21217	Cascade	Culture Tubes	<0.5%T	0.02%T	
Mercuric Sulfate	ZQ1208	Spectrum	Pipet #1	1.00G	1.00G	
Sulfuric Acid	190428	Corco	Pipet #2	5	5.00	
Glass Culture Tubes	90K16100R	Kimble-Chase	2.45 Pump	4.5	4.5	
Closures	15137720	ILT	0.85 Pump	0.99	1	
1500ppm QC Standard	P3792	SIGMA				

STD Conc (x)	Measured X (ppm)	Absorbance(Y)	Transmittance			
0	1.67	0.0000	100	slope =	0.00044	m
10	11.70	0.0044	99	intercept =	-0.00073	b
108	106.83	0.0458	90	corr coef =	1.00000	
226	224.38	0.0969	80			
359	357.64	0.1549	70			
512	511.49	0.2218	60			
693	693.45	0.3010	50			
915	916.16	0.3979	40			
1203	1203.27	0.5229	30			
1515.0	1512.81	0.6576	22			
53	52.86	0.0223	95			
165	163.87	0.0706	85			
290	288.79	0.1249	75			
432	431.61	0.1871	65			
798	798.60	0.3468	45			
1048	1049.42	0.4559	35			
1385	1385.23	0.6021	25			

MDL Determination	%T	Conc.(ppm)
STD Used(PPM)	B&L	
40	95.5	47.6
40	95.7	45.5
40	95.8	44.5
40	95.5	47.6
40	95.7	45.5
40	96	42.4
40	95.8	44.5
MDL	96.2	5.8

(Unico)

Enter Standard Data Here:			Enter readings here:	
%R	STD(ppm)	Conc(ppm)	%T	Abs
109%	20	22	98	0.0088
100%	250	250	78	0.1079
102%	500	508	60.2	0.2204
100%	750	749	47.3	0.3251
101%	1000	1010	36.4	0.4389
97%	1500	1460	23.2	0.6345

AVG Deviation: 101%