

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Analyte Proficiency From All Labs

Sample # 210311

Grade 46-0-0

Statistical Summary

Analytes: 29

Labs Reporting: 92

Issue Date : 04/30/2021

Analyte Code	Analyte Sample # 210311	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Analyte Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	Analyte IA Ratio	Average Range (R-bar)	Horwitz %RSD
001	Ammoniacal N (%)	3	3	1.477	0.8623	1.477		0.8623	0.6223	58.39%		0.0800	3.77%
005	Urea N (%)	6	6	44.76	1.803	44.92		1.664	0.8492	3.70%		0.2674	1.49%
006	Biuret N (%)	4	4	0.8306	0.4376	0.8306		0.4376	0.2735	52.68%		0.0538	4.11%
007	Urea (%)	4	4	45.70	0.1857	45.70		0.1857	0.1161	0.41%		0.1750	1.48%
008	Biuret (%)	14	14	0.5565	0.1811	0.5269		0.1325	0.0443	25.15%		0.0165	4.40%
010	Total N (46%)	88	84	46.17	0.7864	46.24	0.8800	0.5033	0.0686	1.09%	1.33	0.1865	1.47%
020	Total P2O5 (%)	2	2	0.0283	0.0117								
041	Direct Available P2O5 (%)	4	3	1.012	1.975	1.350	0.6700	2.274	1.641	168.46%	7.91	0.0220	3.82%
050	Soluble K2O (%)	7	5	9.251	17.76	3.643	0.4100	8.034	4.491	220.53%	45.66	0.0191	3.29%
060	Water (Free) (%)	11	10	0.6083	0.6148	0.4402		0.3092	0.1222	70.25%		0.0182	4.53%
101	Acid Soluble Ca (%)	3	2	0.0102	0.0003	0.0102	0.2005	0.0003	0.0003	3.11%	0.00	0.0006	7.97%
121	Acid Soluble Mg (%)	4	3	0.0063	0.0026	0.0051	0.2003	0.0009	0.0007	18.07%	0.01	0.0004	8.87%
143	Elemental S (%)	1		0.1100									
148	Total S (%)	1		0.0300									
149	S - HNO3 soluble (%)	1		0.0972									
151	Acid Soluble As (ppm)	1		0.0020									
165	Acid Soluble B (%)	1		0.0100									
181	Acid Soluble Cd (ppm)	1		0.0061									
191	Acid Soluble Cr (ppm)	2	2	0.1154	0.0490								
221	Acid Soluble Cu (%)	1		0.0100									
241	Acid Soluble Fe (%)	2	1	0.0062	0.0054								
251	Acid Soluble Pb (ppm)	1		0.0520									
261	Acid Soluble Mn (%)	2	1	0.0051	0.0070								
281	Acid Soluble Hg (ppm)	1		0.0012									
289	Acid Soluble Mo (ppm)	1		0.0551									
291	Acid Soluble Ni (ppm)	1		0.4149									
301	Acid Soluble Se (ppm)	1		0.0046									
311	Sodium (%)	1		0.0100									
321	Acid Soluble Zn (%)	2	1	0.0051	0.0070								

The Analyte IA Ratio = $2.33 * \text{Robust SD} / \text{IA at the Analyte Assigned Value}$. IA ratios of 1 and less indicate participant data dispersion is as good or less than the IA. Red indicates the IA ratio is significantly greater than 1, Orange indicates marginally greater than 1, Green indicates IA ratio is not significantly greater than 1 and Grey indicates < 6 labs reporting. The Horwitz %RSD is calculated using the Thompson Modification, Analyst,2000,125,385-386.

Horwitz %RSD	
Average Range (R-bar)	
Analyte IA Ratio	
Robust % RSD	
Robust Uncertainty (U)	
Robust sd	
IA at Analyte Value	
Assigned Value Robust Mean	
Raw SD	
Raw Mean	
# Tests in Robust Calculations	
# Tests Submitted	
Analyte Sample # 210311	
Analyte Code	

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Sample # 210311

Grade 46-0-0

Lab Values

Analytes: 29

Labs Reporting: 92

Issue Date : 04/30/2021

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
001	Ammoniacal N (%)	0524	0.4850	0.0700	1.477	0.8623	0.0800	3	-1.15	001.99	0
001	Ammoniacal N (%)	0506	1.895	0.0900	1.477	0.8623	0.0800	3	0.49	001.99	0
001	Ammoniacal N (%)	0533	2.050	0.0800	1.477	0.8623	0.0800	3	0.66	001.99	0
005	Urea N (%)	0524	41.48	0.5300	44.92	1.664	0.2674	6	-1.84	005.99	0
005	Urea N (%)	0506	43.90	0.0000	44.92	1.664	0.2674	6	-0.55	005.99	0
005	Urea N (%)	0368	45.30	0.2242	44.92	1.664	0.2674	6	0.20	005.00	0
005	Urea N (%)	0394	45.75	0.0900	44.92	1.664	0.2674	6	0.44	005.10	0
005	Urea N (%)	0027	46.05	0.7400	44.92	1.664	0.2674	6	0.61	005.99	0
005	Urea N (%)	0546	46.10	0.0200	44.92	1.664	0.2674	6	0.63	005.99	0
006	Biuret N (%)	0506	0.2875	0.0250	0.8306	0.4376	0.0538	4	-1.24	006.99	0
006	Biuret N (%)	0220	0.7250	0.0500	0.8306	0.4376	0.0538	4	-0.24	006.99	0
006	Biuret N (%)	0450	0.9850	0.0300	0.8306	0.4376	0.0538	4	0.35	006.10	0
006	Biuret N (%)	0550	1.325	0.1100	0.8306	0.4376	0.0538	4	1.13	006.10	0
007	Urea (%)	0549	45.54	0.2900	45.70	0.1857	0.1750	4	-0.89	007.99	0
007	Urea (%)	0569	45.60	0.1500	45.70	0.1857	0.1750	4	-0.57	007.99	0
007	Urea (%)	0537	45.72	0.1900	45.70	0.1857	0.1750	4	0.08	007.00	0
007	Urea (%)	0220	45.96	0.0700	45.70	0.1857	0.1750	4	1.37	007.00	0
008	Biuret (%)	0234	0.3300	0.0200	0.5269	0.1325	0.0165	14	-1.49	008.99	0
008	Biuret (%)	0572	0.3667	0.0063	0.5269	0.1325	0.0165	14	-1.21	008.10	0
008	Biuret (%)	0546	0.4100	0.0000	0.5269	0.1325	0.0165	14	-0.88	008.10	0
008	Biuret (%)	0498	0.4700	0.0400	0.5269	0.1325	0.0165	14	-0.43	008.00	0
008	Biuret (%)	0513	0.4750	0.0100	0.5269	0.1325	0.0165	14	-0.39	008.10	0
008	Biuret (%)	0394	0.5000	0.0200	0.5269	0.1325	0.0165	14	-0.20	008.99	0
008	Biuret (%)	0481	0.5100	0.0200	0.5269	0.1325	0.0165	14	-0.13	008.10	0
008	Biuret (%)	0444	0.5400	0.0000	0.5269	0.1325	0.0165	14	0.10	008.10	0
008	Biuret (%)	0444	0.5600	0.0400	0.5269	0.1325	0.0165	14	0.25	008.00	0
008	Biuret (%)	0510	0.5635	0.0227	0.5269	0.1325	0.0165	14	0.28	008.10	0
008	Biuret (%)	0415	0.6000	0.0000	0.5269	0.1325	0.0165	14	0.55	008.10	0
008	Biuret (%)	0476	0.6008	0.0025	0.5269	0.1325	0.0165	14	0.56	008.10	0
008	Biuret (%)	0534	0.8600	0.0000	0.5269	0.1325	0.0165	14	2.51	008.10	0
008	Biuret (%)	0117	1.006	0.0490	0.5269	0.1325	0.0165	14	3.61	008.10	0
010	Total N (46%)	0539	44.32†	0.0900	46.24	0.5033	0.1865	84	-3.83	010.99	0
010	Total N (46%)	0524	44.65†	0.4113	46.24	0.5033	0.1865	84	-3.16	010.99	0
010	Total N (46%)	0568	45.10†	0.0000	46.24	0.5033	0.1865	84	-2.27	010.12	0
010	Total N (46%)	0571	45.20†	0.0000	46.24	0.5033	0.1865	84	-2.07	010.99	0
010	Total N (46%)	0540	45.35†	0.5000	46.24	0.5033	0.1865	84	-1.77	010.11	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
010	Total N (46%)	0553	45.40	1.200	46.24	0.5033	0.1865	84	-1.67	010.99	0
010	Total N (46%)	0516	45.43	0.6200	46.24	0.5033	0.1865	84	-1.61	010.60	0
010	Total N (46%)	0558	45.45	0.1000	46.24	0.5033	0.1865	84	-1.57	010.99	0
010	Total N (46%)	0522	45.46	0.0400	46.24	0.5033	0.1865	84	-1.55	010.99	0
010	Total N (46%)	0136	45.55	0.1000	46.24	0.5033	0.1865	84	-1.38	010.60	0
010	Total N (46%)	0157	45.60	0.0000	46.24	0.5033	0.1865	84	-1.28	010.60	0
010	Total N (46%)	0522	45.64	0.0000	46.24	0.5033	0.1865	84	-1.20	010.11	0
010	Total N (46%)	0537	45.71	0.0400	46.24	0.5033	0.1865	84	-1.06	010.99	0
010	Total N (46%)	0041	45.75	0.3800	46.24	0.5033	0.1865	84	-0.98	010.60	0
010	Total N (46%)	0506	45.75	0.1000	46.24	0.5033	0.1865	84	-0.98	010.99	0
010	Total N (46%)	0532	45.84	0.0900	46.24	0.5033	0.1865	84	-0.81	010.99	0
010	Total N (46%)	0234	45.85	0.2200	46.24	0.5033	0.1865	84	-0.78	010.60	0
010	Total N (46%)	0544	45.90	0.0300	46.24	0.5033	0.1865	84	-0.69	010.11	0
010	Total N (46%)	0564	45.92	0.0100	46.24	0.5033	0.1865	84	-0.65	010.99	0
010	Total N (46%)	0565	45.92	0.0200	46.24	0.5033	0.1865	84	-0.64	010.99	0
010	Total N (46%)	0027	45.97	0.7300	46.24	0.5033	0.1865	84	-0.55	010.60	0
010	Total N (46%)	0547	46.00	0.0700	46.24	0.5033	0.1865	84	-0.49	010.60	0
010	Total N (46%)	0325	46.00	0.6000	46.24	0.5033	0.1865	84	-0.48	010.60	0
010	Total N (46%)	0572	46.02	0.1500	46.24	0.5033	0.1865	84	-0.45	010.12	0
010	Total N (46%)	0523	46.02	0.0500	46.24	0.5033	0.1865	84	-0.45	010.60	0
010	Total N (46%)	0551	46.03	0.0500	46.24	0.5033	0.1865	84	-0.43	010.99	0
010	Total N (46%)	0551	46.03	0.1500	46.24	0.5033	0.1865	84	-0.43	010.11	0
010	Total N (46%)	0292	46.03	0.1300	46.24	0.5033	0.1865	84	-0.43	010.60	0
010	Total N (46%)	0562	46.05	0.2000	46.24	0.5033	0.1865	84	-0.38	010.99	0
010	Total N (46%)	0291	46.09	0.0100	46.24	0.5033	0.1865	84	-0.31	010.60	0
010	Total N (46%)	0472	46.09	0.0300	46.24	0.5033	0.1865	84	-0.31	010.60	0
010	Total N (46%)	0513	46.12	0.0800	46.24	0.5033	0.1865	84	-0.24	010.99	0
010	Total N (46%)	0443	46.13	0.2000	46.24	0.5033	0.1865	84	-0.22	010.60	0
010	Total N (46%)	0231	46.15	0.0100	46.24	0.5033	0.1865	84	-0.19	010.60	0
010	Total N (46%)	0498	46.15	0.3000	46.24	0.5033	0.1865	84	-0.18	010.12	0
010	Total N (46%)	0518	46.15	0.1000	46.24	0.5033	0.1865	84	-0.18	010.99	0
010	Total N (46%)	0476	46.15	0.0673	46.24	0.5033	0.1865	84	-0.18	010.99	0
010	Total N (46%)	0405	46.17	0.0700	46.24	0.5033	0.1865	84	-0.15	010.60	0
010	Total N (46%)	0169	46.19	0.0500	46.24	0.5033	0.1865	84	-0.11	010.60	0
010	Total N (46%)	0450	46.20	0.0000	46.24	0.5033	0.1865	84	-0.08	010.60	0
010	Total N (46%)	0309	46.21	0.0600	46.24	0.5033	0.1865	84	-0.06	010.11	0
010	Total N (46%)	0486	46.25	0.0100	46.24	0.5033	0.1865	84	0.01	010.60	0
010	Total N (46%)	0131	46.26	0.2770	46.24	0.5033	0.1865	84	0.04	010.60	0
010	Total N (46%)	0534	46.30	0.0000	46.24	0.5033	0.1865	84	0.11	010.60	0
010	Total N (46%)	0025	46.30	0.1130	46.24	0.5033	0.1865	84	0.12	010.60	0
010	Total N (46%)	0307	46.32	0.0700	46.24	0.5033	0.1865	84	0.14	010.60	0
010	Total N (46%)	0040	46.35	0.3000	46.24	0.5033	0.1865	84	0.21	010.60	0
010	Total N (46%)	0354	46.35	0.3000	46.24	0.5033	0.1865	84	0.21	010.60	0
010	Total N (46%)	0389	46.36	0.5700	46.24	0.5033	0.1865	84	0.22	010.60	0
010	Total N (46%)	0055	46.37	0.0300	46.24	0.5033	0.1865	84	0.24	010.60	0
010	Total N (46%)	0561	46.37	0.1200	46.24	0.5033	0.1865	84	0.25	010.60	0
010	Total N (46%)	0371	46.40	0.0100	46.24	0.5033	0.1865	84	0.30	010.60	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
010	Total N (46%)	0423	46.40	0.2100	46.24	0.5033	0.1865	84	0.30	010.60	0
010	Total N (46%)	0559	46.40	0.0100	46.24	0.5033	0.1865	84	0.30	010.99	0
010	Total N (46%)	0324	46.40	0.0000	46.24	0.5033	0.1865	84	0.31	010.60	0
010	Total N (46%)	0501	46.40	0.6000	46.24	0.5033	0.1865	84	0.31	010.60	0
010	Total N (46%)	0510	46.42	0.0824	46.24	0.5033	0.1865	84	0.35	010.11	0
010	Total N (46%)	0043	46.43	0.0200	46.24	0.5033	0.1865	84	0.37	010.60	0
010	Total N (46%)	0451	46.45	0.7000	46.24	0.5033	0.1865	84	0.41	010.60	0
010	Total N (46%)	0444	46.49	0.0100	46.24	0.5033	0.1865	84	0.48	010.60	0
010	Total N (46%)	0049	46.51	0.0900	46.24	0.5033	0.1865	84	0.52	010.60	0
010	Total N (46%)	0095	46.51	0.2700	46.24	0.5033	0.1865	84	0.52	010.60	0
010	Total N (46%)	0550	46.57	0.4300	46.24	0.5033	0.1865	84	0.64	010.60	0
010	Total N (46%)	0230	46.60	0.4000	46.24	0.5033	0.1865	84	0.71	010.60	0
010	Total N (46%)	0452	46.62	0.1400	46.24	0.5033	0.1865	84	0.75	010.60	0
010	Total N (46%)	0255	46.65	0.2910	46.24	0.5033	0.1865	84	0.81	010.60	0
010	Total N (46%)	0073	46.66	0.2200	46.24	0.5033	0.1865	84	0.83	010.60	0
010	Total N (46%)	0481	46.67	0.1100	46.24	0.5033	0.1865	84	0.84	010.60	0
010	Total N (46%)	0220	46.67	0.0000	46.24	0.5033	0.1865	84	0.85	010.60	0
010	Total N (46%)	0377	46.69	0.2700	46.24	0.5033	0.1865	84	0.88	010.60	0
010	Total N (46%)	0521	46.69	0.0000	46.24	0.5033	0.1865	84	0.90	010.60	0
010	Total N (46%)	0260	46.70	0.2000	46.24	0.5033	0.1865	84	0.91	010.60	0
010	Total N (46%)	0029	46.75	0.1000	46.24	0.5033	0.1865	84	1.01	010.60	0
010	Total N (46%)	0177	46.83	0.0200	46.24	0.5033	0.1865	84	1.17	010.60	0
010	Total N (46%)	0422	46.85	0.3000	46.24	0.5033	0.1865	84	1.21	010.60	0
010	Total N (46%)	0481	46.89	0.0300	46.24	0.5033	0.1865	84	1.28	010.12	0
010	Total N (46%)	0527	46.91	0.0050	46.24	0.5033	0.1865	84	1.33	010.60	0
010	Total N (46%)	0485	46.95	0.2206	46.24	0.5033	0.1865	84	1.40	010.60	0
010	Total N (46%)	0545	47.06	0.1000	46.24	0.5033	0.1865	84	1.62	010.99	0
010	Total N (46%)	0034	47.10	0.0000	46.24	0.5033	0.1865	84	1.70	010.60	0
010	Total N (46%)	0543	47.38‡	0.6020	46.24	0.5033	0.1865	84	2.25	010.60	0
010	Total N (46%)	0042	47.45‡	0.7000	46.24	0.5033	0.1865	84	2.40	010.60	0
010	Total N (46%)	0368	47.73‡	0.4790	46.24	0.5033	0.1865	84	2.96	010.60	0
010	Total N (46%)	0023	48.30‡	0.2000	46.24	0.5033	0.1865	84	4.09	010.60	0
010	Total N (46%)	0086	45.49	1.320	46.24	0.5033	0.1865	84	-1.49	010.60	1
010	Total N (46%)	0035	45.75	1.500	46.24	0.5033	0.1865	84	-0.98	010.60	1
010	Total N (46%)	0356	46.22	1.227	46.24	0.5033	0.1865	84	-0.05	010.60	1
010	Total N (46%)	0415	41.45†	0.7000	46.24	0.5033	0.1865	84	-9.52	010.12	2
020	Total P2O5 (%)	0389	0.0200	0.0000				2		020.50	0
020	Total P2O5 (%)	0524	0.0365	0.0012				2		020.50	0
041	Direct Available P2O5 (%)	0568	0.0350	0.0100	1.350	2.274	0.0220	3	-0.58	041.21	0
041	Direct Available P2O5 (%)	0354	0.0390	0.0060	1.350	2.274	0.0220	3	-0.58	041.21	0
041	Direct Available P2O5 (%)	0533	3.975	0.0500	1.350	2.274	0.0220	3	1.15	041.99	0
041	Direct Available P2O5 (%)	0325	0.0000	0.0000	1.350	2.274	0.0220	3		041.50	4
050	Soluble K2O (%)	0354	0.0240	0.0020	3.643	8.034	0.0191	5	-0.39	050.52	0
050	Soluble K2O (%)	0568	0.0500	0.0200	3.643	8.034	0.0191	5	-0.39	050.51	0
050	Soluble K2O (%)	0389	0.0600	0.0000	3.643	8.034	0.0191	5	-0.39	050.99	0
050	Soluble K2O (%)	0524	0.0666	0.0034	3.643	8.034	0.0191	5	-0.39	050.99	0
050	Soluble K2O (%)	0533	18.02	0.0700	3.643	8.034	0.0191	5	1.56	050.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
050	Soluble K2O (%)	0114	46.54	0.1960	3.643	8.034	0.0191	5	4.66	050.00	1
050	Soluble K2O (%)	0325	0.0000	0.0000	3.643	8.034	0.0191	5		050.99	4
060	Water (Free) (%)	0405	0.1850	0.0100	0.4402	0.3092	0.0182	10	-0.77	060.00	0
060	Water (Free) (%)	0136	0.2150	0.0100	0.4402	0.3092	0.0182	10	-0.68	060.99	0
060	Water (Free) (%)	0498	0.2400	0.0400	0.4402	0.3092	0.0182	10	-0.60	060.99	0
060	Water (Free) (%)	0513	0.2570	0.0020	0.4402	0.3092	0.0182	10	-0.55	060.20	0
060	Water (Free) (%)	0220	0.2750	0.0300	0.4402	0.3092	0.0182	10	-0.50	060.00	0
060	Water (Free) (%)	0550	0.3485	0.0110	0.4402	0.3092	0.0182	10	-0.28	060.99	0
060	Water (Free) (%)	0561	0.4350	0.0300	0.4402	0.3092	0.0182	10	-0.02	060.00	0
060	Water (Free) (%)	0510	0.6959	0.0181	0.4402	0.3092	0.0182	10	0.77	060.99	0
060	Water (Free) (%)	0476	0.8622	0.0009	0.4402	0.3092	0.0182	10	1.27	060.99	0
060	Water (Free) (%)	0394	0.8880	0.0300	0.4402	0.3092	0.0182	10	1.35	060.30	0
060	Water (Free) (%)	0572	2.290	1.420	0.4402	0.3092	0.0182	10	5.56	060.99	1
101	Acid Soluble Ca (%)	0389	0.0100	0.0000				2		101.99	0
101	Acid Soluble Ca (%)	0568	0.0105	0.0011				2		101.30	0
101	Acid Soluble Ca (%)	0354	< 0.01					2		101.30	5
121	Acid Soluble Mg (%)	0389	0.0040	0.0000	0.0051	0.0009	0.0004	3	-1.15	121.99	0
121	Acid Soluble Mg (%)	0524	0.0055	0.0004	0.0051	0.0009	0.0004	3	0.49	121.99	0
121	Acid Soluble Mg (%)	0568	0.0057	0.0007	0.0051	0.0009	0.0004	3	0.66	121.30	0
121	Acid Soluble Mg (%)	0354	< 0.01		0.0051	0.0009	0.0004	3		121.30	5
143	Elemental S (%)	0389	0.1100	0.0000				1		143.99	0
148	Total S (%)	0354	0.0300	0.0200				1		148.99	0
149	S - HNO3 soluble (%)	0524	0.0972	0.0034				1		149.04	0
151	Acid Soluble As (ppm)	0524	0.0020	0.0000				1		151.30	0
165	Acid Soluble B (%)	0354	< 0.01					0		165.30	5
181	Acid Soluble Cd (ppm)	0524	0.0061	0.0000				1		181.30	0
191	Acid Soluble Cr (ppm)	0524	0.0808	0.0277				2		191.30	0
191	Acid Soluble Cr (ppm)	0389	0.1500	0.0000				2		191.30	0
221	Acid Soluble Cu (%)	0354	< 0.01					0		221.30	5
241	Acid Soluble Fe (%)	0524	0.0024	0.0004				1		241.99	0
241	Acid Soluble Fe (%)	0354	< 0.01					1		241.30	5
251	Acid Soluble Pb (ppm)	0524	0.0520	0.0020				1		251.30	0
261	Acid Soluble Mn (%)	0524	0.0001	0.0000				1		261.99	0
261	Acid Soluble Mn (%)	0354	< 0.01					1		261.30	5
281	Acid Soluble Hg (ppm)	0524	0.0012	0.0012				1		281.99	0
289	Acid Soluble Mo (ppm)	0524	0.0551	0.0100				1		289.30	0
291	Acid Soluble Ni (ppm)	0524	0.4149	0.1019				1		291.30	0
301	Acid Soluble Se (ppm)	0524	0.0046	0.0032				1		301.30	0
311	Sodium (%)	0354	0.0100	0.0000				1		311.99	0
321	Acid Soluble Zn (%)	0524	0.0001	0.0000				1		321.99	0
321	Acid Soluble Zn (%)	0354	< 0.01					1		321.30	5

Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or -2 and -3 (warning) and Green = Z < 2 and >-2 (OK at 95%). Flags indicate data usage: 0 = Used, 1 = rejected for duplicates too far apart, 2 = rejected as extreme outlier, 3 = removed from stats, 4 = rejected due to 0s submitted and 5 = LOD. A 9 flag indicates a data problem - scores not calculated. Robust statistics not used if < 6 labs used in calculations, in this case the Z Scores are grey and included for information only. Your offset values are higher (‡) or lower (†) than the Robust Analyte value ± Investigational Allowance. Analyte codes in light green indicate a guaranteed analyte. Individual lab values may be below detection limits but are reported solely for the purpose of this Proficiency Testing program.