

United States of America

- Area: 9,629,091 km²
- Laboratories: 43
- Dairy Processing Centers: 4
- Cows Enrolled: 4,200,000+
- •47% of all cows in the USA

Laboratory Locations



Laboratory Certification and Audits

of

Sample Unknowns

Initial Certification Audits

Before achieving initial certification, laboratories must demonstrate acceptable machine performance by surpassing Sample Unknowns tolerances at least one time. Once that has been accomplished, the laboratory must submit to an on-site audit and demonstrate compliance with all aspects of this manual and with the Code of Ethics and Uniform Data Collection Procedures.

On-site Audits

➤ Once certification has been established, laboratories will be subject to a biannual, on-site audit in order to renew their certification. During the on-site audit, laboratories must allow the auditor to observe the routine analysis of samples. Laboratories failing to demonstrate routine compliance throughout the two-year period will become subject to annual, on-site audits until consistent performance has been restored.

Monthly Audits of the Sample Unknowns

Although the on-site audits are required for biannual laboratory certification, Sample Unknowns must be submitted and found within acceptable limits on a monthly basis for ongoing certification to continue. This requirement must be met for each laboratory machine used for the generation of sample results used in the GEP.

Auditing of Infrared and SCC Instruments for Sample Unknowns

Calibration Check Procedure

 On a monthly basis, the laboratory must purchase duplicate sets of 12 samples from a supplier designated by the auditor. The samples must be analyzed and the following data submitted to a predetermined site by midnight EST on the second Friday of each month.

Acceptable Readings for Calibration Checks IR

- The mean difference must not exceed 0.05% and the standard deviation
- of differences must not exceed 0.06% in three of the previous four trials.
- The rolling mean difference over six trials may not exceed .02% ** Changes being done in 2007 for tighter tolerances **
- Acceptable Readings for Electronic SCC
- The mean percent difference must not exceed 10%. And the SD must
- not exceed 10% in three of the previous four trials.
- The rolling mean difference over six trials may not exceed 5%

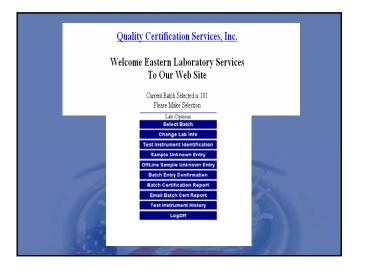








"Unknown Sample" Web site					
QCS	Quality Confiftentian Envisor Idan 1912 F. Dahlin Ganariki B.R. Cahandan, Olif 4131 Phane: 614 2946 1479 1467 E-mail: Mirig 2016a.erg				
Welcome To Quality Certification Services, Inc.					
	Please Enter Your User ID and Password User ID Password Logn [Beset]				





LANDHIA	
B2500 B	

Machine History

	FA	FAT Results		PRO Results		
Month	MD	SDD	RMD	MD	SDD	RMD
Dec	-0.034	0.015	-0.034	-0.030	0.013	-0.030
Jan	0.024	0.036	0.005	0.013	0.021	-0.009
Feb	-0.051	0.051	-0.020	-0.017	0.014	-0.011

		Protein	
Sample Lab/Inst	trument Avg Instr R	esults Prec Stats	Accuracy Stats
Number Ref II	nst Diff Rep1	Rep2 Range SD Reps	IR Mean Diff
1 3.030 3.	.033 0.003 3.04	3.04 0.000 0.000	3.040 0.010
2 3.183 3	.169 -0.014 3.14	3.16 0.020 0.014	3.150 -0.033
3 3.080 3	.057 -0.023 3.06	3.06 0.000 0.000	3.060 -0.020
4 3.047 3	.036 -0.011 3.02	3.03 0.010 0.007	3.025 -0.022
5 3.127 3	.114 -0.013 3.12	3.13 0.010 0.007	3.125 -0.002
6 3.210 3	.206 -0.004 3.19	3.21 0.020 0.014	3.200 -0.010
7 2.993 2	.999 0.006 2.98	3.00 0.020 0.014	2.990 -0.003
8 3.490 3	.464 -0.026 3.45	3.46 0.010 0.007	3.455 -0.035
9 3.340 3	.322 -0.018 3.31	3.32 0.010 0.007	3.315 -0.025
10 3.350 3	.349 -0.001 3.35	3.35 0.000 0.000	3.350 0.000
11 3.070 3	.053 -0.017 3.04	3.05 0.010 0.007	3.045 -0.025
12 3.033 3	.028 -0.005 3.03	3.03 0.000 0.000	3.030 -0.003
	Distance in the		A. 1
	MD -0.010	SDA 0.006	MD -0.014
	SDD 0.010		SDD 0.015
	1000		

