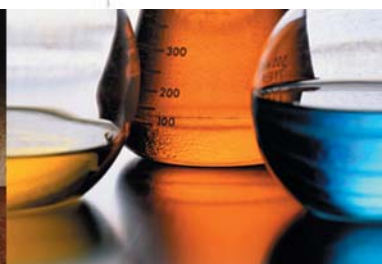




Canadian Food
Inspection Agency

Agence canadienne
d'inspection des aliments

Canadian Food Inspection Agency



Verification of the Riffle and Gamet Dividers

Our vision:

To excel as a science-based regulator, trusted and respected by Canadians and the international community.

Our mission:

Dedicated to safeguarding food, animals and plants, which enhances the health and well-being of Canada's people, environment and economy.

CSAAC Workshop

Brandon, Manitoba

May 29 - 30, 2012

Presented by: Jenny Koehnlein

Canada



Definitions

Verification: Uses objective evidence to confirm that specified requirements have been met. Whenever specified requirements have been met, a verified status is achieved.

Calibration: Is the relationship between a set of operations and the related values realized by International Organization for Standardization (ISO) requirements.



Questions we must ask ourselves!

- What?
Equipment: Gamet and Riffle
- Who?
Lab responsibilities and Analyst training
- When?
Annually/monthly?

- 
- Where?

As defined in your Quality Manual

- Why?

Based on the Seed Laboratory Accreditation and Audit Protocol (Seed LAAP)



Seed LAAP

Management requirements

- must have the proper equipment for testing
- laboratory must be fully operational, at the time of the pre-accreditation and subsequent audits.



Seed LAAP cont'd

Control of Records

Laboratory must keep records of:

- inspection and maintenance for all equipment
- records of calibration and verification





Seed LAAP cont'd

Technical requirements

- All equipment must be uniquely identified
e.g. Laboratory assigned number or manufacturer's serial number.



Seed LAAP cont'd

Measurement Traceability

- Any piece of equipment that is relevant to the test **MUST** be calibrated and subsequently verified

e.g. balances, germination chambers....



Seed LAAP cont'd

Quality Control

- Regular inspection and maintenance of equipment must be carried out and records kept by the responsible lab personnel.



The biggest question.....

HOW?????



Research

- how does this equipment work?
- what happens if _____?

Set up a procedure

- is it reproducible between all analysts?
- time factor?

And our final answer is.....

- 1000 grams of good, clean Common wheat with 40 Common buckwheat
- Proper mixing and dividing using rules in M&P and ISTA Sampling Handbook
- Guidelines for 5% deviation using table F3 from Miles, ISTA – Procedures 1963 Vol 28(3)
- Creation of the Excel spreadsheet
- Sign-off for verification of each machine and validation of each analyst.
- All records on file for audits.

Divider & Id:				Date:		Analyst name:			Divider verification				
Using 1000g wheat with 40 buckwheat added									Analyst validation				
						Balance							
Weight per side (allowed difference 5% of combined side A + side B weight)									Other seed count per side (40 added expected 20 per side, allowed range 12 to 28)				
Starting weight	Left or Side A	Right or Side B	Combined A+B weight	Is starting weight and combined A+B weight within 2g?	Difference of weights side A-B	Allowed difference +/- 5% of combined weight (A+B)	Within allowed range		Left or Side A	Right or Side B	Combined A+ B count	Does Side A + Side B count equal 40?	Within allowed range
			0.00		0.00	0.00					0		
			0.00		0.00	0.00					0		
			0.00		0.00	0.00					0		
			0.00		0.00	0.00					0		
			0.00		0.00	0.00					0		
			0.00		0.00	0.00					0		
			0.00		0.00	0.00					0		
			0.00		0.00	0.00					0		
			0.00		0.00	0.00					0		
			0.00		0.00	0.00					0		
			0.00		0.00	0.00					0		
Average					0.00	0.00							
For both weight and number values determined are 8 /10 paired values within allowed ranges?													
If yes then analyst or divider approved.													
Reviewed by:				Analyst Signature				Date					
Analyst validated authorized by:						Date:							
Divider authorized fit for use by:						Date:							

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