



Dave Heineman
Governor

State of Nebraska

DEPARTMENT OF AGRICULTURE
GREGORY A. IBACH
Director

Nebraska Standards Laboratory
3721 West Cuming Street
Lincoln, NE 68524

CERTIFICATION FOR STANDARDS OF MEASUREMENT

Agency: Food Safety & Consumer Protection
Area 50

Date: 7/15/2013
Agency ID: 50
NE Cert No: 20130072
P.O. No:

Submitted By: Ken Tichota

Electronic Copy Page 1

Denomination	Serial Number	Weight Number	Tolerance	Accept/Reject
5 gal	0236	1	VL	A
5 gal	0237	1	VL	A
5 gal	0238	1	VL	A
2 lb	12A9	1	F	A
2 lb	12A9	2	F	A
2 lb	12A9	3	F	A
2 lb	12A9	4	F	A
2 lb	12A9	5	F	A
2 lb	12A9	6	F	A
2 lb	12A9	7	F	A
2 lb	12A9	8	F	A
2 lb	12A9	9	F	A
2 lb	12A9	10	F	A
2 lb	12A9	11	F	A
2 lb	12A9	12	F	A
2 lb	12A9	13	F	A
2 lb	12A9	14	F	A
1 lb	12A9	15	F	A
1 lb	12A9	16	F	A
8 oz	12A9	17	F	A
4 oz	12A9	18	F	A
2 oz	12A9	19	F	A
1 oz	12A9	20	F	A
0.5 oz	12A9	21	F	A
0.25 oz	12A9	22	F	A

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Administration
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Lincoln, NE 68509-4947
(402) 471-2341
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Agriculture Laboratories
3703 South 14th Street
Lincoln, NE 68502-5399
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FAX: (402) 471-0091

Bureau of Animal Industry
P.O. Box 94987
Lincoln, NE 68509-4787
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Bureau of Dairies & Foods
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Bureau of Plant Industry
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Lincoln, NE 68509-4756
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Weights and Measures
P.O. Box 94757
Lincoln, NE 68509-4757
(402) 471-4292
FAX: (402) 471-2759

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Electronic Copy Page 2

<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance</u>	<u>Accept/Reject</u>
0.125 oz	12A9	23	F	A
0.0625 oz	12A9	24	F	A
0.0625 oz*	12A9	25	F	A
0.3 lb	12A9	26	F	A
0.2 lb	12A9	27	F	A
0.1 lb	12A9	28	F	A
0.05 lb	12A9	29	F	A
0.03 lb	12A9	30	F	A
0.02 lb	12A9	31	F	A
0.01 lb	12A9	32	F	A
0.005 lb	12A9	33	F	A
0.003 lb	12A9	34	F	A
0.002 lb	12A9	35	F	A
0.001 lb	12A9	36	F	A
0.001 lb*	12A9	37	F	A
4 kg	5	1	4	A
5 gal	87276	1	VL	A
5 gal	87280	1	VL	A
0.2 lb	N-99-A	1	F	A
0.2 lb*	N-99-A	2	F	A
0.1 lb	N-99-A	3	F	A
0.05 lb	N-99-A	4	F	A
0.02 lb	N-99-A	5	F	A
0.02 lb*	N-99-A	6	F	A
0.01 lb	N-99-A	7	F	A
0.005 lb	N-99-A	8	F	A
0.002 lb	N-99-A	9	F	A
0.002 lb*	N-99-A	10	F	A
0.001 lb	N-99-A	11	F	A
25 lb	NE-100	1	F	A
25 lb	NE-81	1	F	A
25 lb	NE-82	1	F	A
25 lb	NE-83	1	F	A
25 lb	NE-84	1	F	A
25 lb	NE-85	1	F	A
25 lb	NE-86	1	F	A

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Electronic Copy Page 3

<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance</u>	<u>Accept/Reject</u>
25 lb	NE-87	1	F	A
25 lb	NE-88	1	F	A
25 lb	NE-89	1	F	A
25 lb	NE-90	1	F	A
25 lb	NE-91	1	F	A
25 lb	NE-92	1	F	A
25 lb	NE-93	1	F	A
25 lb	NE-94	1	F	A
25 lb	NE-95	1	F	A
25 lb	NE-96	1	F	A
25 lb	NE-97	1	F	A
25 lb	NE-98	1	F	A
25 lb	NE-99	1	F	A
25 lb	WM25-106	1	F	A
25 lb	WM25-113	1	F	A
25 lb	WM25-27	1	F	A
25 lb	WM25-29	1	F	A
25 lb	WM25-65	1	F	A
25 lb	WM25-66	1	F	A
25 lb	WM25-67	1	F	A
25 lb	WM25-68	1	F	A
25 lb	WM25-69	1	F	A
25 lb	WM25-70	1	F	A
25 lb	WM25-71	1	F	A
25 lb	WM25-72	1	F	A
25 lb	WM25-73	1	F	A
25 lb	WM25-74	1	F	A
25 lb	WM-D1	1	F	A
25 lb	WM-D13	1	F	A
25 lb	WM-D14	1	F	A
25 lb	WM-D16	1	F	A
25 lb	WM-D2	1	F	A
25 lb	WM-D30	1	F	A
300 g	WM-G89-4	1	4	A
200 g	WM-G89-4	2	4	A
100 g	WM-G89-4	3	4	A
50 g	WM-G89-4	4	4	A
30 g	WM-G89-4	5	4	A
20 g	WM-G89-4	6	4	A
10 g	WM-G89-4	7	4	A
5 g	WM-G89-4	8	4	A
3 g	WM-G89-4	9	4	A

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Electronic Copy Page 4

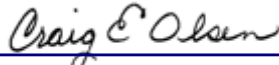
Denomination	Serial Number	Weight Number	Tolerance	Accept/Reject
2 g	WM-G89-4	10	4	A
1 g	WM-G89-4	11	4	A
500 mg	WM-G89-4	12	4	A
200 mg	WM-G89-4	13	4	A
200 mg*	WM-G89-4	14	4	A
100 mg	WM-G89-4	15	4	A
50 mg	WM-G89-4	16	4	A
20 mg	WM-G89-4	17	4	A
20 mg*	WM-G89-4	18	4	A
10 mg	WM-G89-4	19	4	A
5 mg	WM-G89-4	20	4	A
2 mg	WM-G89-4	21	4	A
2 mg*	WM-G89-4	22	4	A
1 mg	WM-G89-4	23	4	A

These field standards have been compared with our reference standards and found to be within the tolerances for their class, or condemned, as prescribed by the National Institute of Standards and Technology. These field standards also meet the required specifications.

The reference standards used are traceable to the National Institute of Standards and Technology (NIST). Our traceability is maintained through control charts, regional inter-comparisons and periodic recertifications. This certificate is issued by the Nebraska Department of Agriculture / Division of Weights and Measures. Reproduction of this certificate must include the entire document (including all attached papers).

See 'Test Results' attached

See report/letter attached



Craig E. Olsen
Nebraska State Metrologist

Nebraska Standards Laboratory
 3721 West Cuming Street
 Lincoln, NE 68524
 (402) 471-2087

SOP 4 - Double Substitution Test Results - Individual Weight

Agency ID: 50

Agency: Food Safety & Consumer Protection
 Area 50

NE Cert No: 20130072

Date: 7/15/2013

P.O. No:

Observer: CEO

Submitted By: Ken Tichota

Electronic Copy

Form No.: NE04LF6-R00

Serial #:	5	Temperature:	21.4 °C
Weight #:	1	Pressure:	770 mm/Hg
Retest #:	0	Rel Humidity:	55 %
Denomination:	4 kg	Comparator Used:	CC10000S_5kg
Density:	7.85 g/cm3	Pooled Std.Dev.:	0.0002077 g
Eq Wt/grams:	4000 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0004 g	S: 3kg	3000.00891 g	0.0002 g	7.99 g/cm3
X+Tx:	0.0432 g	SW: 200mgrl	0.20000005 g	0.00000332 g	7.95 g/cm3
X+Tx+SW:	0.2431 g	Ts: 1kg*	1000.011334 g	0.00007 g	7.99 g/cm3
S+Ts+SW:	0.2004 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	4000.07380482 g	Mx Correction:	0.07380482 g
Conventional Mass:	4000.06233792 g	CMx Correction:	0.06233792 g
		Tolerance Class:	4
Uncertainty:	0.00047693 g	Tolerance:	0.08 g
Air Density:	0.00120824 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-4	Temperature:	21.3 °C
Weight #:	1	Pressure:	768.8 mm/Hg
Retest #:	0	Rel Humidity:	55 %
Denomination:	300 g	Comparator Used:	CC1201_300g
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000422 g
Eq Wt/grams:	300 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0001 g	S: 300g	300.003333 g	0.000021 g	7.99 g/cm3
X+Tx:	-0.0036 g	SW: 50mgrl	0.05000304 g	0.00000429 g	7.95 g/cm3
X+Tx+SW:	0.0463 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0501 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	300.00044232 g	Mx Correction:	0.00044232 g
Conventional Mass:	299.99952382 g	CMx Correction:	-0.00047618 g
		Tolerance Class:	4
Uncertainty:	0.00008758 g	Tolerance:	0.006 g
Air Density:	0.00120680 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-4	Temperature:	21.3 °C
Weight #:	2	Pressure:	768.8 mm/Hg
Retest #:	0	Rel Humidity:	55 %
Denomination:	200 g	Comparator Used:	CC1201_200g
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000685 g
Eq Wt/grams:	200 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0001 g	S: 200g	200.00251 g	0.000012 g	7.99 g/cm3
X+Tx:	0.001 g	SW: 50mgrl	0.05000304 g	0.00000429 g	7.95 g/cm3
X+Tx+SW:	0.051 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0503 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	200.00388810 g	Mx Correction:	0.00388810 g
Conventional Mass:	200.00327575 g	CMx Correction:	0.00327575 g
		Tolerance Class:	4
Uncertainty:	0.00013790 g	Tolerance:	0.004 g
Air Density:	0.00120680 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-4	Temperature:	21.4 °C
Weight #:	3	Pressure:	769 mm/Hg
Retest #:	0	Rel Humidity:	55 %
Denomination:	100 g	Comparator Used:	AT106_100g
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000117 g
Eq Wt/grams:	100 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.000008 g	S: 100grl	100.00012523 g	0.00001841 g	7.95 g/cm3
X+Tx:	0.000387 g	SW: 20mgrl	0.01999817 g	0.00000429 g	7.95 g/cm3
X+Tx+SW:	0.020378 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.019999 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	100.00071736 g	Mx Correction:	0.00071736 g
Conventional Mass:	100.00041119 g	CMx Correction:	0.00041119 g
		Tolerance Class:	4
Uncertainty:	0.00002981 g	Tolerance:	0.002 g
Air Density:	0.00120667 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-4	Temperature:	21.4 °C
Weight #:	4	Pressure:	769 mm/Hg
Retest #:	0	Rel Humidity:	55 %
Denomination:	50 g	Comparator Used:	AT106_50g
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000114 g
Eq Wt/grams:	50 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.000001 g	S: 50grl	50.00004499 g	0.00001658 g	7.95 g/cm3
X+Tx:	0.001062 g	SW: 20mgrl	0.01999817 g	0.00000429 g	7.95 g/cm3
X+Tx+SW:	0.021055 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.019995 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	50.00121226 g	Mx Correction:	0.00121226 g
Conventional Mass:	50.00105917 g	CMx Correction:	0.00105917 g
		Tolerance Class:	4
Uncertainty:	0.00002818 g	Tolerance:	0.0012 g
Air Density:	0.00120667 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-4	Temperature:	21.4 °C
Weight #:	5	Pressure:	769 mm/Hg
Retest #:	0	Rel Humidity:	55 %
Denomination:	30 g	Comparator Used:	AT106_50g
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000114 g
Eq Wt/grams:	30 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.000001 g	S: 30grl	30.0000531 g	0.00001559 g	7.95 g/cm3
X+Tx:	0.000155 g	SW: 20mgrl	0.01999817 g	0.00000429 g	7.95 g/cm3
X+Tx+SW:	0.020147 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.019994 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	30.00027155 g	Mx Correction:	0.00027155 g
Conventional Mass:	30.00017969 g	CMx Correction:	0.00017969 g
		Tolerance Class:	4
Uncertainty:	0.00002761 g	Tolerance:	0.0009 g
Air Density:	0.00120667 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-4	Temperature:	21.4 °C
Weight #:	6	Pressure:	769 mm/Hg
Retest #:	0	Rel Humidity:	55 %
Denomination:	20 g	Comparator Used:	AT106_20g
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000056 g
Eq Wt/grams:	20 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0 g	S: 20grl	20.00005372 g	0.00001647 g	7.95 g/cm3
X+Tx:	0.000531 g	SW: 20mgrl	0.01999817 g	0.00000429 g	7.95 g/cm3
X+Tx+SW:	0.020524 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.019992 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	20.00062796 g	Mx Correction:	0.00062796 g
Conventional Mass:	20.00056672 g	CMx Correction:	0.00056672 g
		Tolerance Class:	4
Uncertainty:	0.00001999 g	Tolerance:	0.0007 g
Air Density:	0.00120667 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-4	Temperature:	21.7 °C
Weight #:	7	Pressure:	769 mm/Hg
Retest #:	0	Rel Humidity:	55 %
Denomination:	10 g	Comparator Used:	AT106_10g
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000058 g
Eq Wt/grams:	10 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.000002 g	S: 10grl	10.00002161 g	0.00002093 g	7.95 g/cm3
X+Tx:	0.000179 g	SW: 20mgrl	0.01999817 g	0.00000429 g	7.95 g/cm3
X+Tx+SW:	0.020172 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.019995 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	10.00022193 g	Mx Correction:	0.00022193 g
Conventional Mass:	10.00019131 g	CMx Correction:	0.00019131 g
		Tolerance Class:	4
Uncertainty:	0.00002397 g	Tolerance:	0.0005 g
Air Density:	0.00120532 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-4	Temperature:	21.7 °C
Weight #:	8	Pressure:	769 mm/Hg
Retest #:	0	Rel Humidity:	55 %
Denomination:	5 g	Comparator Used:	CCE6_5G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000016 g
Eq Wt/grams:	5 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.000002 g	S: 5grl	5.00002048 g	0.00000595 g	7.95 g/cm3
X+Tx:	0.000168 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0051733 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050046 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	5.00020047 g	Mx Correction:	0.00020047 g
Conventional Mass:	5.00018516 g	CMx Correction:	0.00018516 g
		Tolerance Class:	4
Uncertainty:	0.00000704 g	Tolerance:	0.00036 g
Air Density:	0.00120532 g/cm3	Accept/Reject:	A

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Serial #:	WM-G89-4	Temperature:	21.7 °C
Weight #:	9	Pressure:	769 mm/Hg
Retest #:	0	Rel Humidity:	55 %
Denomination:	3 g	Comparator Used:	CCE6_5G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000016 g
Eq Wt/grams:	3 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000005 g	S: 3grl	3.00001842 g	0.00000595 g	7.95 g/cm3
X+Tx:	-0.0000039 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0049662 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050062 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	2.99998555 g	Mx Correction:	-0.00001445 g
Conventional Mass:	2.99997637 g	CMx Correction:	-0.00002363 g
		Tolerance Class:	4
Uncertainty:	0.00000704 g	Tolerance:	0.0003 g
Air Density:	0.00120532 g/cm3	Accept/Reject:	A

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Form No.: NE04LF6-R00

Serial #:	WM-G89-4	Temperature:	21.5 °C
Weight #:	10	Pressure:	768.8 mm/Hg
Retest #:	0	Rel Humidity:	55 %
Denomination:	2 g	Comparator Used:	CCE6_5G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000016 g
Eq Wt/grams:	2 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000001 g	S: 2grl	2.00001238 g	0.00000595 g	7.95 g/cm3
X+Tx:	0.0000452 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0050497 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050051 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	2.00006159 g	Mx Correction:	0.00006159 g
Conventional Mass:	2.00005547 g	CMx Correction:	0.00005547 g
		Tolerance Class:	4
Uncertainty:	0.00000704 g	Tolerance:	0.00026 g
Air Density:	0.00120590 g/cm3	Accept/Reject:	A

Nebraska Standards Laboratory
 3721 West Cuming Street
 Lincoln, NE 68524
 (402) 471-2087

SOP 4 - Double Substitution Test Results - Individual Weight

Agency ID: 50

Agency: Food Safety & Consumer Protection
 Area 50

NE Cert No: 20130072

Date: 7/15/2013

P.O. No:

Observer: CEO

Submitted By: Ken Tichota

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Form No.: NE04LF6-R00

Serial #:	WM-G89-4	Temperature:	21.5 °C
Weight #:	11	Pressure:	768.8 mm/Hg
Retest #:	0	Rel Humidity:	55 %
Denomination:	1 g	Comparator Used:	CCE6_1G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000011 g
Eq Wt/grams:	1 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000015 g	S: 1grl	1.00001237 g	0.000004 g	7.95 g/cm3
X+Tx:	-0.0000131 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0049917 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050047 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	1.00000220 g	Mx Correction:	0.00000220 g
Conventional Mass:	0.99999914 g	CMx Correction:	-0.00000086 g
		Tolerance Class:	4
Uncertainty:	0.00000496 g	Tolerance:	0.0002 g
Air Density:	0.00120590 g/cm3	Accept/Reject:	A

Nebraska Standards Laboratory
 3721 West Cuming Street
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SOP 4 - Double Substitution Test Results - Individual Weight

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Form No.: NE04LF6-R00

Serial #:	WM-G89-4	Temperature:	21.8 °C
Weight #:	12	Pressure:	768.5 mm/Hg
Retest #:	0	Rel Humidity:	56 %
Denomination:	500 mg	Comparator Used:	CCE6_1G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000011 g
Eq Wt/grams:	0.5 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0 g	S: 500mgrl	0.50000616 g	0.00000348 g	7.95 g/cm3
X+Tx:	0.0000226 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0050283 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050067 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.50002932 g	Mx Correction:	0.00002932 g
Conventional Mass:	0.50002779 g	CMx Correction:	0.00002779 g
		Tolerance Class:	4
Uncertainty:	0.00000456 g	Tolerance:	0.00016 g
Air Density:	0.00120397 g/cm3	Accept/Reject:	A

Nebraska Standards Laboratory
 3721 West Cuming Street
 Lincoln, NE 68524
 (402) 471-2087

SOP 4 - Double Substitution Test Results - Individual Weight

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 Area 50

NE Cert No: 20130072

Date: 7/15/2013

P.O. No:

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Electronic Copy

Form No.: NE04LF6-R00

Serial #:	WM-G89-4	Temperature:	21.8 °C
Weight #:	13	Pressure:	768.5 mm/Hg
Retest #:	0	Rel Humidity:	56 %
Denomination:	200 mg	Comparator Used:	CCE6_1G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000011 g
Eq Wt/grams:	0.2 g		

Observations

State Standards Used

	Observed		ID	True Mass	Uncertainty	Density
S+Ts:	0.0000002 g	S:	200mgrl	0.20000005 g	0.00000332 g	7.95 g/cm3
X+Tx:	-0.0000072 g	SW:	5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0049984 g	Ts:		g	g	g/cm3
S+Ts+SW:	0.0050062 g	Tx:		g	g	g/cm3

Final Test Results

True Mass:	0.19999288 g	Mx Correction:	-0.00000712 g
Conventional Mass:	0.19999226 g	CMx Correction:	-0.00000774 g
		Tolerance Class:	4
Uncertainty:	0.00000443 g	Tolerance:	0.00012 g
Air Density:	0.00120397 g/cm3	Accept/Reject:	A

Nebraska Standards Laboratory
 3721 West Cuming Street
 Lincoln, NE 68524
 (402) 471-2087

SOP 4 - Double Substitution Test Results - Individual Weight

Agency ID: 50

Agency: Food Safety & Consumer Protection
 Area 50

NE Cert No: 20130072

Date: 7/15/2013

P.O. No:

Observer: CEO

Submitted By: Ken Tichota

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Form No.: NE04LF6-R00

Serial #:	WM-G89-4	Temperature:	21.8 °C
Weight #:	14	Pressure:	768.5 mm/Hg
Retest #:	0	Rel Humidity:	56 %
Denomination:	200 mg*	Comparator Used:	CCE6_1G
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000011 g
Eq Wt/grams:	0.2 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000013 g	S: 200mgrl	0.20000005 g	0.00000332 g	7.95 g/cm3
X+Tx:	0.0000165 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0050221 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050077 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.20001527 g	Mx Correction:	0.00001527 g
Conventional Mass:	0.20001466 g	CMx Correction:	0.00001466 g
		Tolerance Class:	4
Uncertainty:	0.00000443 g	Tolerance:	0.00012 g
Air Density:	0.00120397 g/cm3	Accept/Reject:	A

Nebraska Standards Laboratory
 3721 West Cuming Street
 Lincoln, NE 68524
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SOP 4 - Double Substitution Test Results - Individual Weight

Agency ID: 50

Agency: Food Safety & Consumer Protection
 Area 50

NE Cert No: 20130072

Date: 7/15/2013

P.O. No:

Observer: CEO

Submitted By: Ken Tichota

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Form No.: NE04LF6-R00

Serial #: WM-G89-4
 Weight #: 15
 Retest #: 0
 Denomination: 100 mg
 Density: 7.84 g/cm³
 Eq Wt/grams: 0.1 g

Temperature: 21.8 °C
 Pressure: 768.5 mm/Hg
 Rel Humidity: 56 %
 Comparator Used: CCE6_100MG
 Pooled Std.Dev.: 0.0000010 g

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000001 g	S: 100mgrl	0.09999769 g	0.0000043 g	7.95 g/cm ³
X+Tx:	-0.0000181 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm ³
X+Tx+SW:	0.0049875 g	Ts:	g	g	g/cm ³
S+Ts+SW:	0.0050066 g	Tx:	g	g	g/cm ³

Final Test Results

True Mass:	0.09997925 g	Mx Correction:	-0.00002075 g
Conventional Mass:	0.09997895 g	CMx Correction:	-0.00002105 g
		Tolerance Class:	4
Uncertainty:	0.00000516 g	Tolerance:	0.0001 g
Air Density:	0.00120397 g/cm ³	Accept/Reject:	A

Nebraska Standards Laboratory
 3721 West Cuming Street
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SOP 4 - Double Substitution Test Results - Individual Weight

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Date: 7/15/2013

P.O. No:

Observer: CEO

Submitted By: Ken Tichota

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Form No.: NE04LF6-R00

Serial #:	WM-G89-4	Temperature:	21.6 °C
Weight #:	16	Pressure:	768.3 mm/Hg
Retest #:	0	Rel Humidity:	56 %
Denomination:	50 mg	Comparator Used:	CCE6_100MG
Density:	7.84 g/cm3	Pooled Std.Dev.:	0.0000010 g
Eq Wt/grams:	0.05 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000032 g	S: 50mgrl	0.05000304 g	0.00000429 g	7.95 g/cm3
X+Tx:	-0.0000151 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0049903 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050028 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.04999095 g	Mx Correction:	-0.00000905 g
Conventional Mass:	0.04999079 g	CMx Correction:	-0.00000921 g
		Tolerance Class:	4
Uncertainty:	0.00000515 g	Tolerance:	0.000085 g
Air Density:	0.00120455 g/cm3	Accept/Reject:	A

Nebraska Standards Laboratory
 3721 West Cuming Street
 Lincoln, NE 68524
 (402) 471-2087

SOP 4 - Double Substitution Test Results - Individual Weight

Agency ID: 50

Agency: Food Safety & Consumer Protection
 Area 50

NE Cert No: 20130072

Date: 7/15/2013

P.O. No:

Observer: CEO

Submitted By: Ken Tichota

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Form No.: NE04LF6-R00

Serial #:	WM-G89-4	Temperature:	21.6 °C
Weight #:	17	Pressure:	768.3 mm/Hg
Retest #:	0	Rel Humidity:	56 %
Denomination:	20 mg	Comparator Used:	CCE6_100MG
Density:	2.7 g/cm3	Pooled Std.Dev.:	0.0000010 g
Eq Wt/grams:	0.02 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0 g	S: 20mgrl	0.01999817 g	0.00000429 g	7.95 g/cm3
X+Tx:	-0.0000133 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0049922 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.005006 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.01999051 g	Mx Correction:	-0.00000949 g
Conventional Mass:	0.01998462 g	CMx Correction:	-0.00001538 g
		Tolerance Class:	4
Uncertainty:	0.00000515 g	Tolerance:	0.00007 g
Air Density:	0.00120455 g/cm3	Accept/Reject:	A

Nebraska Standards Laboratory
 3721 West Cuming Street
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SOP 4 - Double Substitution Test Results - Individual Weight

Agency ID: 50

Agency: Food Safety & Consumer Protection
 Area 50

NE Cert No: 20130072

Date: 7/15/2013

P.O. No:

Observer: CEO

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Electronic Copy

Form No.: NE04LF6-R00

Serial #:	WM-G89-4	Temperature:	21.6 °C
Weight #:	18	Pressure:	768.3 mm/Hg
Retest #:	0	Rel Humidity:	56 %
Denomination:	20 mg*	Comparator Used:	CCE6_100MG
Density:	2.7 g/cm3	Pooled Std.Dev.:	0.0000010 g
Eq Wt/grams:	0.02 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000009 g	S: 20mgrl	0.01999817 g	0.00000429 g	7.95 g/cm3
X+Tx:	0.0000241 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0050296 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050062 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.02002737 g	Mx Correction:	0.00002737 g
Conventional Mass:	0.02002147 g	CMx Correction:	0.00002147 g
		Tolerance Class:	4
Uncertainty:	0.00000515 g	Tolerance:	0.00007 g
Air Density:	0.00120455 g/cm3	Accept/Reject:	A

Nebraska Standards Laboratory
 3721 West Cuming Street
 Lincoln, NE 68524
 (402) 471-2087

SOP 4 - Double Substitution Test Results - Individual Weight

Agency ID: 50

Agency: Food Safety & Consumer Protection
 Area 50

NE Cert No: 20130072

Date: 7/15/2013

P.O. No:

Observer: CEO

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Electronic Copy

Form No.: NE04LF6-R00

Serial #:	WM-G89-4	Temperature:	21.6 °C
Weight #:	19	Pressure:	768.3 mm/Hg
Retest #:	0	Rel Humidity:	56 %
Denomination:	10 mg	Comparator Used:	CCE6_10MG
Density:	2.7 g/cm3	Pooled Std.Dev.:	0.0000005 g
Eq Wt/grams:	0.01 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000006 g	S: 10mgrl	0.01000326 g	0.00000216 g	7.95 g/cm3
X+Tx:	0.0000002 g	SW: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx+SW:	0.0050054 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0050048 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.01000691 g	Mx Correction:	0.00000691 g
Conventional Mass:	0.01000396 g	CMx Correction:	0.00000396 g
		Tolerance Class:	4
Uncertainty:	0.00000308 g	Tolerance:	0.00006 g
Air Density:	0.00120455 g/cm3	Accept/Reject:	A

Nebraska Standards Laboratory
 3721 West Cuming Street
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SOP 4 - Double Substitution Test Results - Individual Weight

Agency ID: 50

Agency: Food Safety & Consumer Protection
 Area 50

NE Cert No: 20130072

Date: 7/15/2013

P.O. No:

Observer: CEO

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Electronic Copy

Form No.: NE04LF6-R00

Serial #:	WM-G89-4	Temperature:	21.6 °C
Weight #:	20	Pressure:	768.1 mm/Hg
Retest #:	0	Rel Humidity:	56 %
Denomination:	5 mg	Comparator Used:	CCE6_10MG
Density:	2.7 g/cm3	Pooled Std.Dev.:	0.0000005 g
Eq Wt/grams:	0.005 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	-0.0000001 g	S: 5mgrl	0.00500527 g	0.00000036 g	7.95 g/cm3
X+Tx:	0.0000096 g	SW: 2mg	0.0020113 g	0.00000044 g	8.36 g/cm3
X+Tx+SW:	0.0020216 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.002013 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.00501589 g	Mx Correction:	0.00001589 g
Conventional Mass:	0.00501442 g	CMx Correction:	0.00001442 g
		Tolerance Class:	4
Uncertainty:	0.00000223 g	Tolerance:	0.000055 g
Air Density:	0.00120423 g/cm3	Accept/Reject:	A

Nebraska Standards Laboratory
 3721 West Cuming Street
 Lincoln, NE 68524
 (402) 471-2087

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Form No.: NE04LF6-R00

Serial #:	WM-G89-4	Temperature:	21.6 °C
Weight #:	21	Pressure:	768.1 mm/Hg
Retest #:	0	Rel Humidity:	56 %
Denomination:	2 mg	Comparator Used:	CCE6_10MG
Density:	2.7 g/cm3	Pooled Std.Dev.:	0.0000005 g
Eq Wt/grams:	0.002 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000004 g	S: 2mgrl	0.00199491 g	0.00000034 g	7.95 g/cm3
X+Tx:	0.0000114 g	SW: 2mg	0.0020113 g	0.00000044 g	8.36 g/cm3
X+Tx+SW:	0.0020234 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0020132 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.00200610 g	Mx Correction:	0.00000610 g
Conventional Mass:	0.00200551 g	CMx Correction:	0.00000551 g
		Tolerance Class:	4
Uncertainty:	0.00000222 g	Tolerance:	0.00005 g
Air Density:	0.00120423 g/cm3	Accept/Reject:	A

Nebraska Standards Laboratory
3721 West Cuming Street
Lincoln, NE 68524
(402) 471-2087

SOP 4 - Double Substitution Test Results - Individual Weight

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Date: 7/15/2013

P.O. No:

Observer: CEO

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Electronic Copy

Form No.: NE04LF6-R00

Serial #:	WM-G89-4	Temperature:	21.6 °C
Weight #:	22	Pressure:	768.1 mm/Hg
Retest #:	0	Rel Humidity:	56 %
Denomination:	2 mg*	Comparator Used:	CCE6_10MG
Density:	2.7 g/cm3	Pooled Std.Dev.:	0.0000005 g
Eq Wt/grams:	0.002 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000029 g	S: 2mgrl	0.00199491 g	0.00000034 g	7.95 g/cm3
X+Tx:	0.0000166 g	SW: 2mg	0.0020113 g	0.00000044 g	8.36 g/cm3
X+Tx+SW:	0.0020281 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0020146 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.00200910 g	Mx Correction:	0.00000910 g
Conventional Mass:	0.00200851 g	CMx Correction:	0.00000851 g
		Tolerance Class:	4
Uncertainty:	0.00000222 g	Tolerance:	0.00005 g
Air Density:	0.00120423 g/cm3	Accept/Reject:	A

Nebraska Standards Laboratory
 3721 West Cuming Street
 Lincoln, NE 68524
 (402) 471-2087

SOP 4 - Double Substitution Test Results - Individual Weight

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P.O. No:

Observer: CEO

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Electronic Copy

Form No.: NE04LF6-R00

Serial #:	WM-G89-4	Temperature:	21.6 °C
Weight #:	23	Pressure:	768.1 mm/Hg
Retest #:	0	Rel Humidity:	56 %
Denomination:	1 mg	Comparator Used:	CCE6_10MG
Density:	2.7 g/cm3	Pooled Std.Dev.:	0.0000005 g
Eq Wt/grams:	0.001 g		

Observations

State Standards Used

	Observed	ID	True Mass	Uncertainty	Density
S+Ts:	0.0000003 g	S: 1mg**	0.0010184 g	0.00000041 g	8.36 g/cm3
X+Tx:	-0.0000176 g	SW: 2mg	0.0020113 g	0.00000044 g	8.36 g/cm3
X+Tx+SW:	0.0019936 g	Ts:	g	g	g/cm3
S+Ts+SW:	0.0020112 g	Tx:	g	g	g/cm3

Final Test Results

True Mass:	0.00100095 g	Mx Correction:	0.00000095 g
Conventional Mass:	0.00100066 g	CMx Correction:	0.00000066 g
		Tolerance Class:	4
Uncertainty:	0.00000224 g	Tolerance:	0.00005 g
Air Density:	0.00120423 g/cm3	Accept/Reject:	A

Nebraska Standards Laboratory
3721 West Cuming Street
Lincoln, NE 68524
(402) 471-2087

SOP 4 - Double Substitution - Summary Of Test Results

Agency ID: 50

Agency: Food Safety & Consumer Protection
Area 50

NE Cert No: 20130072

Date: 7/15/2013

P.O. No:

Observer: CEO

Form No.: NE04LF7-R00

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Page 1 of 2

Denom.	Serial Number	Wt. No.	True Mass (g)	Conventional Mass (g)	Uncertainty (g)	Comparator used	Standard used
4 kg	5	1	4000.07380482	4000.06233792	0.00047693	IC10000S_5k	3kg
300 g	WM-G89-4	1	300.00044232	299.99952382	0.00008758	IC1201_300g	300g
200 g	WM-G89-4	2	200.00388810	200.00327575	0.00013790	IC1201_200g	200g
100 g	WM-G89-4	3	100.00071736	100.00041119	0.00002981	AT106_100g	100grl
50 g	WM-G89-4	4	50.00121226	50.00105917	0.00002818	AT106_50g	50grl
30 g	WM-G89-4	5	30.00027155	30.00017969	0.00002761	AT106_50g	30grl
20 g	WM-G89-4	6	20.00062796	20.00056672	0.00001999	AT106_20g	20grl
10 g	WM-G89-4	7	10.00022193	10.00019131	0.00002397	AT106_10g	10grl
5 g	WM-G89-4	8	5.00020047	5.00018516	0.00000704	CCE6_5G	5grl
3 g	WM-G89-4	9	2.99998555	2.99997637	0.00000704	CCE6_5G	3grl
2 g	WM-G89-4	10	2.00006159	2.00005547	0.00000704	CCE6_5G	2grl
1 g	WM-G89-4	11	1.00000220	0.99999914	0.00000496	CCE6_1G	1grl
500 mg	WM-G89-4	12	0.50002932	0.50002779	0.00000456	CCE6_1G	500mgrl
200 mg	WM-G89-4	13	0.19999288	0.19999226	0.00000443	CCE6_1G	200mgrl
200 mg*	WM-G89-4	14	0.20001527	0.20001466	0.00000443	CCE6_1G	200mgrl
100 mg	WM-G89-4	15	0.09997925	0.09997895	0.00000516	ICE6_100MG	100mgrl
50 mg	WM-G89-4	16	0.04999095	0.04999079	0.00000515	ICE6_100MG	50mgrl
20 mg	WM-G89-4	17	0.01999051	0.01998462	0.00000515	ICE6_100MG	20mgrl
20 mg*	WM-G89-4	18	0.02002737	0.02002147	0.00000515	ICE6_100MG	20mgrl
10 mg	WM-G89-4	19	0.01000691	0.01000396	0.00000308	CCE6_10MG	10mgrl

Due to handling, storage and/or environmental factors, the reported values are valid only while test items are within our control. No calibration periods or intervals are given with this report. We can not guarantee accuracy of results beyond the controls of our laboratory.

True Mass is the mass value in a vacuum. Conventional Mass is the mass value in a normal air environment. All values are "as found" unless stated differently in an attachment to the certification.

The uncertainty of measurement is determined using the uncertainty of the reference standard(s), standard deviation of the process, environmental factors and bias using a RSS calculation. Uncertainty values are calculated using a K factor of 2.

Nebraska Standards Laboratory
3721 West Cuming Street
Lincoln, NE 68524
(402) 471-2087

SOP 4 - Double Substitution - Summary Of Test Results

Agency ID: 50

Agency: Food Safety & Consumer Protection
Area 50

NE Cert No: 20130072

Date: 7/15/2013

P.O. No:

Observer: CEO

Form No.: NE04LF7-R00

Submitted By: Ken Tichota

Electronic Copy

Page 2 of 2

Denom.	Serial Number	Wt. No.	True Mass (g)	Conventional Mass (g)	Uncertainty (g)	Comparator used	Standard used
5 mg	WM-G89-4	20	0.00501589	0.00501442	0.00000223	CCE6_10MG	5mgrl
2 mg	WM-G89-4	21	0.00200610	0.00200551	0.00000222	CCE6_10MG	2mgrl
2 mg*	WM-G89-4	22	0.00200910	0.00200851	0.00000222	CCE6_10MG	2mgrl
1 mg	WM-G89-4	23	0.00100095	0.00100066	0.00000224	CCE6_10MG	1mg**

Due to handling, storage and/or environmental factors, the reported values are valid only while test items are within our control. No calibration periods or intervals are given with this report. We can not guarantee accuracy of results beyond the controls of our laboratory.

True Mass is the mass value in a vacuum. Conventional Mass is the mass value in a normal air environment. All values are "as found" unless stated differently in an attachment to the certification.

The uncertainty of measurement is determined using the uncertainty of the reference standard(s), standard deviation of the process, environmental factors and bias using a RSS calculation. Uncertainty values are calculated using a K factor of 2.

Nebraska Standards Laboratory
3721 West Cumming Street
Lincoln, NE 68524
(402) 471-2087

SOP 19 - Volume Transfer Test Results

Agency ID: 50

Agency: Food Safety & Consumer Protection
Area 50

Form No.: NE03LF12-R00

NE Cert No: 20130072

Date: 7/15/2013

P.O. No:

Submitted By: Ken Tichota

Page 1 of 11

Serial #: 0236
Retest #: 0
Denomination: 5 gal
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: SS
Coef of Expansion: 0.0000265 °F

Test Data

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	63.1 °F	0.998725	0 in3

Test Measure Information

Water Temperature: 63.1 °F
Water Density: 0.998725 g/cm³
Scale Reading: 0 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 4.9991 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0019 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

Nebraska Standards Laboratory
3721 West Cuming Street
Lincoln, NE 68524
(402) 471-2087

SOP 19 - Volume Transfer Test Results

Agency ID: 50

Agency: Food Safety & Consumer Protection
Area 50

Form No.: NE03LF12-R00

NE Cert No: 20130072

Date: 7/15/2013

P.O. No:

Submitted By: Ken Tichota

Page 2 of 11

Serial #: 0236
Retest #: 1
Denomination: 5 gal
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: SS
Coef of Expansion: 0.0000265 °F

Test Data

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	63 °F	0.998734	0 in3

Test Measure Information

Water Temperature: 63 °F
Water Density: 0.998734 g/cm³
Scale Reading: 0 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 4.9991 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0019 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

Nebraska Standards Laboratory
3721 West Cuming Street
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(402) 471-2087

SOP 19 - Volume Transfer Test Results

Agency ID: 50

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P.O. No:

Submitted By: Ken Tichota

Page 3 of 11

Serial #: 0237
Retest #: 0
Denomination: 5 gal
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: SS
Coef of Expansion: 0.0000265 °F

Test Data

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	65.7 °F	0.998457	0 in3

Test Measure Information

Water Temperature: 65.7 °F
Water Density: 0.998457 g/cm³
Scale Reading: -1 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 5.0034 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0019 gal.

Accepted/Rejected: R

1 cubic meter = 264.172 gallons

Nebraska Standards Laboratory
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SOP 19 - Volume Transfer Test Results

Agency ID: 50

Agency: Food Safety & Consumer Protection
Area 50

Form No.: NE03LF12-R00

NE Cert No: 20130072

Date: 7/15/2013

P.O. No:

Submitted By: Ken Tichota

Page 4 of 11

Serial #: 0237
Retest #: 1
Denomination: 5 gal
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: SS
Coef of Expansion: 0.0000265 °F

Test Data

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	63.7 °F	0.998665	0 in3

Test Measure Information

Water Temperature: 63.7 °F
Water Density: 0.998665 g/cm³
Scale Reading: -0.25 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 5.0002 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0019 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

Nebraska Standards Laboratory
3721 West Cuming Street
Lincoln, NE 68524
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SOP 19 - Volume Transfer Test Results

Agency ID: 50

Agency: Food Safety & Consumer Protection
Area 50

Form No.: NE03LF12-R00

NE Cert No: 20130072

Date: 7/15/2013

P.O. No:

Submitted By: Ken Tichota

Page 5 of 11

Serial #: 0237
Retest #: 2
Denomination: 5 gal
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: SS
Coef of Expansion: 0.0000265 °F

Test Data

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	63.7 °F	0.998665	0 in3

Test Measure Information

Water Temperature: 63.7 °F
Water Density: 0.998665 g/cm³
Scale Reading: -0.25 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 5.0002 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0019 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

Nebraska Standards Laboratory
3721 West Cumming Street
Lincoln, NE 68524
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SOP 19 - Volume Transfer Test Results

Agency ID: 50

Agency: Food Safety & Consumer Protection
Area 50

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NE Cert No: 20130072

Date: 7/15/2013

P.O. No:

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Page 6 of 11

Serial #: 0238
Retest #: 0
Denomination: 5 gal
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: SS
Coef of Expansion: 0.0000265 °F

Test Data

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	63.6 °F	0.998675	0 in3

Test Measure Information

Water Temperature: 63.6 °F
Water Density: 0.998675 g/cm³
Scale Reading: -0.1 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 4.9995 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0019 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

Nebraska Standards Laboratory
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Lincoln, NE 68524
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SOP 19 - Volume Transfer Test Results

Agency ID: 50

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Area 50

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P.O. No:

Submitted By: Ken Tichota

Page 7 of 11

Serial #: 0238
Retest #: 1
Denomination: 5 gal
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: SS
Coef of Expansion: 0.0000265 °F

Test Data

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	62.7 °F	0.998764	0 in3

Test Measure Information

Water Temperature: 62.7 °F
Water Density: 0.998764 g/cm³
Scale Reading: -0.1 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 4.9995 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0019 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

Nebraska Standards Laboratory
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Lincoln, NE 68524
(402) 471-2087

SOP 19 - Volume Transfer Test Results

Agency ID: 50

Agency: Food Safety & Consumer Protection
Area 50

Form No.: NE03LF12-R00

NE Cert No: 20130072

Date: 7/15/2013

P.O. No:

Submitted By: Ken Tichota

Page 8 of 11

Serial #: 87276
Retest #: 0
Denomination: 5 gal
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: SS
Coef of Expansion: 0.0000265 °F

Test Data

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	65.6 °F	0.998468	0 in3

Test Measure Information

Water Temperature: 65.6 °F
Water Density: 0.998468 g/cm³
Scale Reading: -0.1 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 4.9995 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0019 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

Nebraska Standards Laboratory
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Lincoln, NE 68524
(402) 471-2087

SOP 19 - Volume Transfer Test Results

Agency ID: 50

Agency: Food Safety & Consumer Protection
Area 50

Form No.: NE03LF12-R00

NE Cert No: 20130072

Date: 7/15/2013

P.O. No:

Submitted By: Ken Tichota

Page 9 of 11

Serial #: 87276
Retest #: 1
Denomination: 5 gal
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: SS
Coef of Expansion: 0.0000265 °F

Test Data

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	63.6 °F	0.998675	0 in3

Test Measure Information

Water Temperature: 63.6 °F
Water Density: 0.998675 g/cm³
Scale Reading: -0.1 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 4.9995 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0019 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

Nebraska Standards Laboratory
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Lincoln, NE 68524
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SOP 19 - Volume Transfer Test Results

Agency ID: 50

Agency: Food Safety & Consumer Protection
Area 50

Form No.: NE03LF12-R00

NE Cert No: 20130072

Date: 7/15/2013

P.O. No:

Submitted By: Ken Tichota

Page 10 of 11

Serial #: 87280
Retest #: 0
Denomination: 5 gal
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: SS
Coef of Expansion: 0.0000265 °F

Test Data

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	62.2 °F	0.998812	0 in3

Test Measure Information

Water Temperature: 62.2 °F
Water Density: 0.998812 g/cm³
Scale Reading: 0 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 4.9991 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0019 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

Nebraska Standards Laboratory
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SOP 19 - Volume Transfer Test Results

Agency ID: 50

Agency: Food Safety & Consumer Protection
Area 50

Form No.: NE03LF12-R00

NE Cert No: 20130072

Date: 7/15/2013

P.O. No:

Submitted By: Ken Tichota

Page 11 of 11

Serial #: 87280
Retest #: 1
Denomination: 5 gal
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: SS
Coef of Expansion: 0.0000265 °F

Test Data

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	64 °F	0.998635	0 in3

Test Measure Information

Water Temperature: 64 °F
Water Density: 0.998635 g/cm³
Scale Reading: -0.1 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 4.9995 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0019 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

Nebraska Standards Laboratory
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Lincoln, NE 68524
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SOP 8 - Modified Substitution Test Results

Form No.: NE04LF9-R00

Agency ID: 50
 Agency: Food Safety & Consumer Protection
 Area 50

NE Cert No: 20130072
 Date: 7/15/2013
 P.O. No:
 Observer: CEO

Submitted By: Ken Tichota

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Page 1 of 4

Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
12A9	1	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0811859 g	0.091 g	0.0008264 g	A
12A9	2	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0427859 g	0.091 g	0.0008264 g	A
12A9	3	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0338859 g	0.091 g	0.0008264 g	A
12A9	4	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0458859 g	0.091 g	0.0008264 g	A
12A9	5	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0193859 g	0.091 g	0.0008264 g	A
12A9	6	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0080859 g	0.091 g	0.0008264 g	A
12A9	7	0	2 lb	CC1201_2 lb	NSL-2-1	0.0046141 g	0.091 g	0.0008264 g	A
12A9	8	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0420859 g	0.091 g	0.0008264 g	A
12A9	9	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0155859 g	0.091 g	0.0008264 g	A
12A9	10	0	2 lb	CC1201_2 lb	NSL-2-1	0.0046141 g	0.091 g	0.0008264 g	A
12A9	11	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0288859 g	0.091 g	0.0008264 g	A
12A9	12	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0251859 g	0.091 g	0.0008264 g	A
12A9	13	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0152859 g	0.091 g	0.0008264 g	A
12A9	14	0	2 lb	CC1201_2 lb	NSL-2-1	0.0167141 g	0.091 g	0.0008264 g	A
12A9	15	0	1 lb	CC1201_1 lb	NSL-1-1	-0.0260832 g	0.07 g	0.0007899 g	A
12A9	16	0	1 lb	CC1201_1 lb	NSL-1-1	-0.0312832 g	0.07 g	0.0007899 g	A
12A9	17	0	8 oz	CC1201_8 oz	NSL-8-1	-0.0445778 g	0.045 g	0.0008099 g	A
12A9	18	0	4 oz	CC1201_8 oz	NSL-Z	-0.0109803 g	0.023 g	0.0004080 g	A
12A9	19	0	2 oz	AT106_0.2 lb	NSL-Y	-0.0027824 g	0.011 g	0.0000381 g	A
12A9	20	0	1 oz	AT106_0.2 lb	2A9-1oz	0.0006465 g	0.0054 g	0.0000347 g	A
12A9	21	0	0.5 oz	AT106_0.05 lb	2A9-1.2oz	-0.0020688 g	0.0028 g	0.0000264 g	A
12A9	22	0	0.25 oz	AT106_0.05 lb	2A9-1.4oz	-0.0002673 g	0.0017 g	0.0000236 g	A
12A9	23	0	0.125 oz	CCE6_0.01 lb	2A9-1.8oz	-0.0011358 g	0.0013 g	0.0000124 g	A
12A9	24	0	0.0625 oz	CCE6_0.01 lb	2A9-1.16oz	-0.0008999 g	0.0011 g	0.0000063 g	A
12A9	25	0	0.0625 oz*	CCE6_0.01 lb	2A9-1.16oz	-0.0008498 g	0.0011 g	0.0000063 g	A
12A9	26	0	0.3 lb	CC1201_8 oz	NSL-WK1	-0.0192622 g	0.027 g	0.0008082 g	A

Retest number - 0 indicates "as received" error / 1 indicates "adjusted to" error

The uncertainty of measurement is determined using the uncertainty of the reference standard(s), standard deviation of the process, environmental factors and bias using a RSS calculation. Uncertainty values are calculated using a K factor of 2.

"As received" values for weights may not be a true "as found" value because these weights could have been cleaned and/or repainted prior to submission to this lab. Due to handling, storage and/or environmental factors; the reported values are valid only while test items are within our control. No calibration period or interval is given with this report. We can not guarantee accuracy of results beyond the controls of our laboratory.

Agency ID: 50
 Agency: Food Safety & Consumer Protection
 Area 50

NE Cert No: 20130072
 Date: 7/15/2013
 P.O. No:
 Observer: CEO

Submitted By: Ken Tichota

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Page 2 of 4

Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
12A9	27	0	0.2 lb	AT106_0.2 lb	NSL-WK2	-0.0142484 g	0.018 g	0.0000444 g	A
12A9	28	0	0.1 lb	AT106_0.2 lb	NSL-WK3	-0.0021314 g	0.0091 g	0.0000379 g	A
12A9	29	0	0.05 lb	AT106_0.05 lb	NSL-WK4	-0.0040883 g	0.0045 g	0.0000359 g	A
12A9	30	0	0.03 lb	AT106_0.05 lb	NSL-WK5	-0.0020812 g	0.0027 g	0.0000274 g	A
12A9	31	0	0.02 lb	AT106_0.05 lb	NSL-WK6	0.0001161 g	0.0018 g	0.0000279 g	A
12A9	32	0	0.01 lb	CCE6_0.01 lb	NSL-WK7	-0.0006451 g	0.0015 g	0.0000158 g	A
12A9	33	0	0.005 lb	CCE6_0.01 lb	NSL-WK8	-0.0001546 g	0.0012 g	0.0000057 g	A
12A9	34	0	0.003 lb	CCE6_0.01 lb	NSL-WK9	0.0005022 g	0.00099 g	0.0000057 g	A
12A9	35	0	0.002 lb	CCE6_0.01 lb	NSL-WK10	0.0001876 g	0.00087 g	0.0000052 g	A
12A9	36	0	0.001 lb	CCE6_0.01 lb	NSL-WK11	-0.0000221 g	0.0007 g	0.0000052 g	A
12A9	37	0	0.001 lb*	CCE6_0.01 lb	NSL-WK11	-0.0001497 g	0.0007 g	0.0000052 g	A
N-99-A	1	0	0.2 lb	AT106_0.2 lb	NSL-WK2	0.0061916 g	0.018 g	0.0000444 g	A
N-99-A	2	0	0.2 lb*	AT106_0.2 lb	NSL-WK2	0.0064456 g	0.018 g	0.0000444 g	A
N-99-A	3	0	0.1 lb	AT106_0.2 lb	NSL-WK3	0.0023916 g	0.0091 g	0.0000379 g	A
N-99-A	4	0	0.05 lb	AT106_0.05 lb	NSL-WK4	-0.0009423 g	0.0045 g	0.0000359 g	A
N-99-A	5	0	0.02 lb	AT106_0.05 lb	NSL-WK6	-0.0003289 g	0.0018 g	0.0000279 g	A
N-99-A	6	0	0.02 lb*	AT106_0.05 lb	NSL-WK6	-0.0001649 g	0.0018 g	0.0000279 g	A
N-99-A	7	0	0.01 lb	CCE6_0.01 lb	NSL-WK7	0.0006135 g	0.0015 g	0.0000158 g	A
N-99-A	8	0	0.005 lb	CCE6_0.01 lb	NSL-WK8	-0.0007320 g	0.0012 g	0.0000057 g	A
N-99-A	9	0	0.002 lb	CCE6_0.01 lb	NSL-WK10	0.0000162 g	0.00087 g	0.0000052 g	A
N-99-A	10	0	0.002 lb*	CCE6_0.01 lb	NSL-WK10	-0.0008445 g	0.00087 g	0.0000052 g	A
N-99-A	11	0	0.001 lb	CCE6_0.01 lb	NSL-WK11	0.0004896 g	0.0007 g	0.0000052 g	A
NE-100	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.2261850 g	1.1 g	0.0357301 g	A
NE-81	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.0261850 g	1.1 g	0.0357301 g	A
NE-82	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.4638150 g	1.1 g	0.0357301 g	A
NE-83	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.5711850 g	1.1 g	0.0357301 g	A
NE-84	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.8538150 g	1.1 g	0.0357301 g	A
NE-85	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.1038150 g	1.1 g	0.0357301 g	A
NE-86	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.0161850 g	1.1 g	0.0357301 g	A
NE-87	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.1811850 g	1.1 g	0.0357301 g	R
NE-87	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.4688150 g	1.1 g	0.0357301 g	A
NE-88	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.0488150 g	1.1 g	0.0357301 g	A
NE-89	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.7538150 g	1.1 g	0.0357301 g	A

Retest number - 0 indicates "as received" error / 1 indicates "adjusted to" error

The uncertainty of measurement is determined using the uncertainty of the reference standard(s), standard deviation of the process, environmental factors and bias using a RSS calculation. Uncertainty values are calculated using a K factor of 2.

"As received" values for weights may not be a true "as found" value because these weights could have been cleaned and/or repainted prior to submission to this lab. Due to handling, storage and/or environmental factors; the reported values are valid only while test items are within our control. No calibration period or interval is given with this report. We can not guarantee accuracy of results beyond the controls of our laboratory.

Agency ID: 50
 Agency: Food Safety & Consumer Protection
 Area 50

NE Cert No: 20130072
 Date: 7/15/2013
 P.O. No:
 Observer: CEO

Submitted By: Ken Tichota

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Page 3 of 4

Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
NE-90	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.3288150 g	1.1 g	0.0357301 g	A
NE-91	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.8411850 g	1.1 g	0.0357301 g	A
NE-92	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.5661850 g	1.1 g	0.0357301 g	R
NE-92	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.1688150 g	1.1 g	0.0357301 g	A
NE-93	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.0811850 g	1.1 g	0.0357301 g	A
NE-93	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.9588150 g	1.1 g	0.0357301 g	A
NE-94	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.4211850 g	1.1 g	0.0357301 g	A
NE-95	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.9711850 g	1.1 g	0.0357301 g	A
NE-96	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.3088150 g	1.1 g	0.0357301 g	A
NE-97	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.7911850 g	1.1 g	0.0357301 g	A
NE-98	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.4938150 g	1.1 g	0.0357301 g	A
NE-99	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.3111850 g	1.1 g	0.0357301 g	A
WM25-106	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.8311850 g	1.1 g	0.0357301 g	A
WM25-113	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.1461850 g	1.1 g	0.0357301 g	R
WM25-113	1	1	25 lb	KA30-3_25lb	NSL-25-1	-0.2861850 g	1.1 g	0.0357301 g	A
WM25-27	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.4311850 g	1.1 g	0.0357301 g	R
WM25-27	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.2338150 g	1.1 g	0.0357301 g	A
WM25-29	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.2211850 g	1.1 g	0.0357301 g	R
WM25-29	1	1	25 lb	KA30-3_25lb	NSL-25-1	-0.0711850 g	1.1 g	0.0357301 g	A
WM25-65	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.0388150 g	1.1 g	0.0357301 g	A
WM25-66	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.5211850 g	1.1 g	0.0357301 g	A
WM25-67	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.1261850 g	1.1 g	0.0357301 g	A
WM25-68	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.6711850 g	1.1 g	0.0357301 g	A
WM25-69	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.4811850 g	1.1 g	0.0357301 g	A
WM25-70	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.9361850 g	1.1 g	0.0357301 g	A
WM25-71	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.4811850 g	1.1 g	0.0357301 g	A
WM25-72	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.0038150 g	1.1 g	0.0357301 g	A
WM25-73	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.2188150 g	1.1 g	0.0357301 g	A
WM25-74	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.4688150 g	1.1 g	0.0357301 g	A
WM-D1	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.6511850 g	1.1 g	0.0357301 g	A
WM-D13	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.4661850 g	1.1 g	0.0357301 g	A
WM-D14	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.4761850 g	1.1 g	0.0357301 g	R
WM-D14	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.0238150 g	1.1 g	0.0357301 g	A

Retest number - 0 indicates "as received" error / 1 indicates "adjusted to" error

The uncertainty of measurement is determined using the uncertainty of the reference standard(s), standard deviation of the process, environmental factors and bias using a RSS calculation. Uncertainty values are calculated using a K factor of 2.

"As received" values for weights may not be a true "as found" value because these weights could have been cleaned and/or repainted prior to submission to this lab. Due to handling, storage and/or environmental factors; the reported values are valid only while test items are within our control. No calibration period or interval is given with this report. We can not guarantee accuracy of results beyond the controls of our laboratory.

Agency ID: 50
Agency: Food Safety & Consumer Protection
Area 50

NE Cert No: 20130072
Date: 7/15/2013
P.O. No:
Observer: CEO

Submitted By: Ken Tichota

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Page 4 of 4

Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
WM-D16	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.4838150 g	1.1 g	0.0357301 g	A
WM-D2	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.9911850 g	1.1 g	0.0357301 g	R
WM-D2	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.4138150 g	1.1 g	0.0357301 g	A
WM-D30	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.5161850 g	1.1 g	0.0357301 g	A

Retest number - 0 indicates "as received" error / 1 indicates "adjusted to" error

The uncertainty of measurement is determined using the uncertainty of the reference standard(s), standard deviation of the process, environmental factors and bias using a RSS calculation. Uncertainty values are calculated using a K factor of 2.

"As received" values for weights may not be a true "as found" value because these weights could have been cleaned and/or repainted prior to submission to this lab. Due to handling, storage and/or environmental factors; the reported values are valid only while test items are within our control. No calibration period or interval is given with this report. We can not guarantee accuracy of results beyond the controls of our laboratory.