State of Nebraska

Dave Heineman
Governor

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: 7/16/2012
Agency ID: 50
NE Cert No: 20120079
P.O. No:

Submitted By: Ken Tichota

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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

Denomination	Serial Number	Weight Number	Tolerance	Accept/Reject
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
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
25 lb	NE-87	1	F	A

Denomination	Serial Number	Weight Number	Tolerance	Accept/Reject
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
2 g	WM-G89-4	10	4	A

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Submitted By: Ken Tichota

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Denomination	Serial Number	Weight Number	Tolerance	Accept/Reject
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

Craig E. Olsen
Nebraska State Metrologist

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: 20120079
Date: 7/16/2012
P.O. No:
Observer: CEO

Form No.: NE04LF7-R00

Submitted By: Ken Tichota

Electronic Copy

Denom.	Serial Number	Wt. No.	True Mass (g)	Conventional Mass (g)	Uncertainty (g)	Comparator used	Standard used
300 g	WM-G89-4	1	300.00089733	299.99997882	0.00014135	CC1201 / 1 kg	300gd
200 g	WM-G89-4	2	200.00398349	200.00337114	0.00014051	CC1201 / 1 kg	200gd
100 g	WM-G89-4	3	100.00073474	100.00042857	0.00006172	AT106_100G	100grl
50 g	WM-G89-4	4	50.00122942	50.00107633	0.00003666	AT106_50G	50grl
30 g	WM-G89-4	5	30.00026717	30.00017531	0.00002851	AT106_50G	30grl
20 g	WM-G89-4	6	20.00060922	20.00054798	0.00002152	AT106_20G	20grl
10 g	WM-G89-4	7	10.00019691	10.00016629	0.00001808	AT106_10G	10grl
5 g	WM-G89-4	8	5.00019351	5.00017820	0.00000721	CCE6_5G	5grl
3 g	WM-G89-4	9	2.99998127	2.99997208	0.00000632	CCE6_5G	3grl
2 g	WM-G89-4	10	2.00005876	2.00005264	0.00000632	CCE6_5G	2grl
1 g	WM-G89-4	11	1.00000524	1.00000218	0.00000355	CCE6_1G	1grl
500 mg	WM-G89-4	12	0.50002935	0.50002782	0.00000271	CCE6_1G	500mgrl
200 mg	WM-G89-4	13	0.19998771	0.19998710	0.00000235	CCE6_1G	200mgrl
200 mg*	WM-G89-4	14	0.20001391	0.20001330	0.00000235	CCE6_1G	200mgrl
100 mg	WM-G89-4	15	0.09997729	0.09997698	0.00000209	CCE6_100MG	100mgrl
50 mg	WM-G89-4	16	0.04999786	0.04999771	0.00000208	CCE6_100MG	50mgrl
20 mg	WM-G89-4	17	0.01999629	0.01999041	0.00000205	CCE6_100MG	20mgrl
20 mg*	WM-G89-4	18	0.02003795	0.02003205	0.00000205	CCE6_100MG	20mgrl
10 mg	WM-G89-4	19	0.01000891	0.01000597	0.00000205	CCE6_10MG	10mgrl
5 mg	WM-G89-4	20	0.00501553	0.00501405	0.00000204	CCE6_10MG	5mgrl

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. Uncertainity values are calculated using a K factor of 2.

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

Agency ID: 50
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Area 50
, -

NE Cert No: 20120079
Date: 7/16/2012
P.O. No:
Observer: CEO

Form No.: NE04LF7-R00

Submitted By: Ken Tichota

Electronic Copy

Denom.	Serial Number	Wt. No.	True Mass (g)	Conventional Mass (g)	Uncertainty (g)	Comparator used	Standard used
2 mg	WM-G89-4	21	0.00200514	0.00200455	0.00000204	CCE6_10MG	2mgrl
2 mg*	WM-G89-4	22	0.00201094	0.00201035	0.00000204	CCE6_10MG	2mgrl
1 mg	WM-G89-4	23	0.00100145	0.00100115	0.00000203	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.

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Nebraska Standards Laboratory
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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: 20120079
Date: 7/16/2012
P.O. No:
Observer: CEO

Submitted By: Ken Tichota

Electronic Copy

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	-0.0794293 g	0.091 g	0.0018731 g	A
12A9	2	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0409293 g	0.091 g	0.0018731 g	A
12A9	3	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0317293 g	0.091 g	0.0018731 g	A
12A9	4	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0441293 g	0.091 g	0.0018731 g	A
12A9	5	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0173293 g	0.091 g	0.0018731 g	A
12A9	6	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0063293 g	0.091 g	0.0018731 g	A
12A9	7	0	2 lb	CC1201_2 lb	NSL-2-1	0.0064707 g	0.091 g	0.0018731 g	A
12A9	8	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0397293 g	0.091 g	0.0018731 g	A
12A9	9	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0148293 g	0.091 g	0.0018731 g	A
12A9	10	0	2 lb	CC1201_2 lb	NSL-2-1	0.0045707 g	0.091 g	0.0018731 g	A
12A9	11	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0280293 g	0.091 g	0.0018731 g	A
12A9	12	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0239293 g	0.091 g	0.0018731 g	A
12A9	13	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0137293 g	0.091 g	0.0018731 g	A
12A9	14	0	2 lb	CC1201_2 lb	NSL-2-1	0.0168707 g	0.091 g	0.0018731 g	A
12A9	15	0	1 lb	CC1201_1 lb	NSL-1-1	-0.0249445 g	0.07 g	0.0004385 g	A
12A9	16	0	1 lb	CC1201_1 lb	NSL-1-1	-0.0300445 g	0.07 g	0.0004385 g	A
12A9	17	0	8 oz	CC1201_8 oz	NSL-8-1	-0.0433793 g	0.045 g	0.0003804 g	A
12A9	18	0	4 oz	CC1201_8 oz	NSL-Z	-0.0090279 g	0.023 g	0.0003643 g	A
12A9	19	0	2 oz	AT106_0.2 lb	NSL-Y	-0.0024298 g	0.011 g	0.0000612 g	A
12A9	20	0	1 oz	AT106_0.2 lb	2A9-1oz	0.0009709 g	0.0054 g	0.0003667 g	A
12A9	21	0	0.5 oz	AT106_0.2 lb	2A9-1.2oz	-0.0020031 g	0.0028 g	0.0003666 g	A
12A9	22	0	0.25 oz	AT106_0.2 lb	2A9-1.4oz	-0.0002235 g	0.0017 g	0.0000528 g	A
12A9	23	0	0.125 oz	CCE6_0.01 lb	2A9-1.8oz	-0.0010981 g	0.0013 g	0.0000089 g	A
12A9	24	0	0.0625 oz	CCE6_0.01 lb	2A9-1.16oz	-0.0008544 g	0.0011 g	0.0000088 g	A
12A9	25	0	0.0625 oz*	CCE6_0.01 lb	2A9-1.16oz	-0.0008194 g	0.0011 g	0.0000088 g	A
12A9	26	0	0.3 lb	CC1201_8 oz	NSL-WK1	-0.0191103 g	0.027 g	0.0003701 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. Uncertainity 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.

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Observer: CEO

Submitted By: Ken Tichota

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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	-0.0140856 g	0.018 g	0.0000658 g	A
12A9	28	0	0.1 lb	AT106_0.2 lb	NSL-WK3	-0.0019957 g	0.0091 g	0.0000597 g	A
12A9	29	0	0.05 lb	AT106_0.05 lb	NSL-WK4	-0.0040628 g	0.0045 g	0.0000368 g	A
12A9	30	0	0.03 lb	AT106_0.05 lb	NSL-WK5	-0.0020251 g	0.0027 g	0.0000299 g	A
12A9	31	0	0.02 lb	AT106_0.05 lb	NSL-WK6	0.0000837 g	0.0018 g	0.0000290 g	A
12A9	32	0	0.01 lb	CCE6_0.01 lb	NSL-WK7	-0.0006218 g	0.0015 g	0.0000104 g	A
12A9	33	0	0.005 lb	CCE6_0.01 lb	NSL-WK8	-0.0000957 g	0.0012 g	0.0000091 g	A
12A9	34	0	0.003 lb	CCE6_0.01 lb	NSL-WK9	0.0004500 g	0.00099 g	0.0000087 g	A
12A9	35	0	0.002 lb	CCE6_0.01 lb	NSL-WK10	0.0001529 g	0.00087 g	0.0000066 g	A
12A9	36	0	0.001 lb	CCE6_0.01 lb	NSL-WK11	-0.0000403 g	0.0007 g	0.0000064 g	A
12A9	37	0	0.001 lb*	CCE6_0.01 lb	NSL-WK11	-0.0001766 g	0.0007 g	0.0000064 g	A
N-99-A	1	0	0.2 lb	AT106_0.2 lb	NSL-WK2	0.0067404 g	0.018 g	0.0000658 g	A
N-99-A	2	0	0.2 lb*	AT106_0.2 lb	NSL-WK2	0.0069444 g	0.018 g	0.0000658 g	A
N-99-A	3	0	0.1 lb	AT106_0.2 lb	NSL-WK3	0.0024843 g	0.0091 g	0.0000597 g	A
N-99-A	4	0	0.05 lb	AT106_0.05 lb	NSL-WK4	-0.0007588 g	0.0045 g	0.0000368 g	A
N-99-A	5	0	0.02 lb	AT106_0.05 lb	NSL-WK6	-0.0001793 g	0.0018 g	0.0000290 g	A
N-99-A	6	0	0.02 lb*	AT106_0.05 lb	NSL-WK6	-0.0000893 g	0.0018 g	0.0000290 g	A
N-99-A	7	0	0.01 lb	CCE6_0.01 lb	NSL-WK7	0.0006176 g	0.0015 g	0.0000104 g	A
N-99-A	8	0	0.005 lb	CCE6_0.01 lb	NSL-WK8	-0.0006855 g	0.0012 g	0.0000091 g	A
N-99-A	9	0	0.002 lb	CCE6_0.01 lb	NSL-WK10	0.0000259 g	0.00087 g	0.0000066 g	A
N-99-A	10	0	0.002 lb*	CCE6_0.01 lb	NSL-WK10	-0.0008287 g	0.00087 g	0.0000066 g	A
N-99-A	11	0	0.001 lb	CCE6_0.01 lb	NSL-WK11	0.0005265 g	0.0007 g	0.0000064 g	A
NE-100	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.7802207 g	1.1 g	0.0365186 g	R
NE-100	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.5347793 g	1.1 g	0.0365186 g	A
NE-81	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.4202207 g	1.1 g	0.0365186 g	R
NE-81	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.3397793 g	1.1 g	0.0365186 g	A
NE-82	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.8052207 g	1.1 g	0.0365186 g	R
NE-82	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.4897793 g	1.1 g	0.0365186 g	A
NE-83	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.1102207 g	1.1 g	0.0365186 g	A
NE-84	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.2052207 g	1.1 g	0.0365186 g	R
NE-84	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.8247793 g	1.1 g	0.0365186 g	A
NE-85	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.5702207 g	1.1 g	0.0365186 g	R
NE-85	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.1647793 g	1.1 g	0.0365186 g	A

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

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Observer: CEO

Submitted By: Ken Tichota

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Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
NE-86	1	0	25 lb	KA30-3_25lb	NSL-25-1	-2.0702207 g	1.1 g	0.0365186 g	R
NE-86	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.1947793 g	1.1 g	0.0365186 g	A
NE-87	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.6752207 g	1.1 g	0.0365186 g	A
NE-88	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.3152207 g	1.1 g	0.0365186 g	R
NE-88	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.8847793 g	1.1 g	0.0365186 g	A
NE-89	1	0	25 lb	KA30-3_25lb	NSL-25-1	-2.2052207 g	1.1 g	0.0365186 g	R
NE-89	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.4997793 g	1.1 g	0.0365186 g	A
NE-90	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.5202207 g	1.1 g	0.0365186 g	R
NE-90	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.7997793 g	1.1 g	0.0365186 g	A
NE-91	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.6052207 g	1.1 g	0.0365186 g	A
NE-92	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.9802207 g	1.1 g	0.0365186 g	A
NE-93	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.8102207 g	1.1 g	0.0365186 g	A
NE-94	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.1297793 g	1.1 g	0.0365186 g	A
NE-95	1	0	25 lb	KA30-3_25lb	NSL-25-1	-2.0452207 g	1.1 g	0.0365186 g	R
NE-95	1	1	25 lb	KA30-3_25lb	NSL-25-1	-0.1152207 g	1.1 g	0.0365186 g	A
NE-96	1	0	25 lb	KA30-3_25lb	NSL-25-1	-2.1352207 g	1.1 g	0.0365186 g	R
NE-96	1	1	25 lb	KA30-3_25lb	NSL-25-1	1.0097793 g	1.1 g	0.0365186 g	A
NE-97	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.8002207 g	1.1 g	0.0365186 g	R
NE-97	1	1	25 lb	KA30-3_25lb	NSL-25-1	-0.4102207 g	1.1 g	0.0365186 g	A
NE-98	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.3802207 g	1.1 g	0.0365186 g	R
NE-98	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.5997793 g	1.1 g	0.0365186 g	A
NE-99	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.3952207 g	1.1 g	0.0365186 g	R
NE-99	1	1	25 lb	KA30-3_25lb	NSL-25-1	-0.1502207 g	1.1 g	0.0365186 g	A
WM25-106	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.4102207 g	1.1 g	0.0365186 g	A
WM25-113	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.8002207 g	1.1 g	0.0365186 g	A
WM25-27	1	0	25 lb	KA30-3_25lb	NSL-25-1	-3.3052207 g	1.1 g	0.0365186 g	R
WM25-27	1	1	25 lb	KA30-3_25lb	NSL-25-1	-0.6702207 g	1.1 g	0.0365186 g	A
WM25-29	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.8852207 g	1.1 g	0.0365186 g	A
WM25-65	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.1352207 g	1.1 g	0.0365186 g	A
WM25-66	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.5052207 g	1.1 g	0.0365186 g	A
WM25-67	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.1802207 g	1.1 g	0.0365186 g	A
WM25-68	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.4002207 g	1.1 g	0.0365186 g	A
WM25-69	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.3002207 g	1.1 g	0.0365186 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. Uncertainity 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: 20120079
Date: 7/16/2012
P.O. No:
Observer: CEO

Submitted By: Ken Tichota

Electronic Copy

Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
WM25-70	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.7702207 g	1.1 g	0.0365186 g	A
WM25-71	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.4252207 g	1.1 g	0.0365186 g	A
WM25-72	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.5202207 g	1.1 g	0.0365186 g	A
WM25-73	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.2197793 g	1.1 g	0.0365186 g	A
WM25-74	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.5547793 g	1.1 g	0.0365186 g	A
WM-D1	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.3202207 g	1.1 g	0.0365186 g	R
WM-D1	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.4597793 g	1.1 g	0.0365186 g	A
WM-D13	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.2452207 g	1.1 g	0.0365186 g	A
WM-D14	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.8902207 g	1.1 g	0.0365186 g	A
WM-D16	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.8902207 g	1.1 g	0.0365186 g	R
WM-D16	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.4797793 g	1.1 g	0.0365186 g	A
WM-D2	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.9952207 g	1.1 g	0.0365186 g	A
WM-D30	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.5552207 g	1.1 g	0.0365186 g	R
WM-D30	1	1	25 lb	KA30-3_25lb	NSL-25-1	-0.1202207 g	1.1 g	0.0365186 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. Uncertainity 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.

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

SOP 19 - Volume Transfer Test Results

Form No.: NE03LF12-R00

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

NE Cert No: 20120079
Date: 7/16/2012
P.O. No:

Submitted By: Ken Tichota

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	71.2 °F	0.997819	0 in3

Test Measure Information

Water Temperature: 71.2 °F
Water Density: 0.997819 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: 0.0012 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

Form No.: NE03LF12-R00

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

NE Cert No: 20120079
Date: 7/16/2012
P.O. No:

Submitted By: Ken Tichota

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	68.8 °F	0.998110	0 in3

Test Measure Information

Water Temperature: 68.8 °F
Water Density: 0.998110 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: 0.0012 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

Form No.: NE03LF12-R00

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

NE Cert No: 20120079
Date: 7/16/2012
P.O. No:

Submitted By: Ken Tichota

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	67.7 °F	0.998237	0 in3

Test Measure Information

Water Temperature: 67.7 °F
Water Density: 0.998237 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: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

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SOP 19 - Volume Transfer Test Results

Form No.: NE03LF12-R00

Agency ID: 50
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Area 50
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NE Cert No: 20120079
Date: 7/16/2012
P.O. No:

Submitted By: Ken Tichota

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	67.4 °F	0.998271	0 in3

Test Measure Information

Water Temperature: 67.4 °F
Water Density: 0.998271 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: 0.0012 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

Form No.: NE03LF12-R00

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

NE Cert No: 20120079
Date: 7/16/2012
P.O. No:

Submitted By: Ken Tichota

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	68.4 °F	0.998156	0 in3

Test Measure Information

Water Temperature: 68.4 °F
Water Density: 0.998156 g/cm³
Scale Reading: -0.5 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 5.0013 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

Nebraska Standards Laboratory
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SOP 19 - Volume Transfer Test Results

Form No.: NE03LF12-R00

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

NE Cert No: 20120079
Date: 7/16/2012
P.O. No:

Submitted By: Ken Tichota

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	66.1 °F	0.998414	0 in3

Test Measure Information

Water Temperature: 66.7 °F
Water Density: 0.998414 g/cm³
Scale Reading: -0.25 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 5.0004 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

Nebraska Standards Laboratory
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SOP 19 - Volume Transfer Test Results

Form No.: NE03LF12-R00

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

NE Cert No: 20120079
Date: 7/16/2012
P.O. No:

Submitted By: Ken Tichota

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	66.2 °F	0.998403	0 in3

Test Measure Information

Water Temperature: 66.7 °F
Water Density: 0.998403 g/cm³
Scale Reading: -0.2 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 5.0002 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

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Lincoln, NE 68524
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SOP 19 - Volume Transfer Test Results

Form No.: NE03LF12-R00

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

NE Cert No: 20120079
Date: 7/16/2012
P.O. No:

Submitted By: Ken Tichota

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	70.5 °F	0.997906	0 in3

Test Measure Information

Water Temperature: 70.5 °F
Water Density: 0.997906 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: 0.0012 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

Form No.: NE03LF12-R00

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

NE Cert No: 20120079
Date: 7/16/2012
P.O. No:

Submitted By: Ken Tichota

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	67.6 °F	0.998248	0 in3

Test Measure Information

Water Temperature: 67.6 °F
Water Density: 0.998248 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: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons