

Validation Protocol

Title: Auto Poucher 5 IQ/OQ/PQ Final Report Number: E16-VAL-RFR-910

Owner: Thomas Evans Revision: 0 Effective Date: April 26, 2016

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Approvals

Signing below indicates agreement that the execution of the Installation, Operational, and Performance Qualification Protocol for Auto Poucher #5, PakSource PSG RP-6TZE-30 Serial #P-1521, located at 109 Giles Place at the Giles Chemical Repackaging facility is complete and the process is validated.

Project Team Member	Functional Area	Signature	Date
Patrick Owen	Engineering	Para Seel	4/27/16
Thomas Evans	Maintenance	Thomas Juan	4/27/16
Monte Plott	Production	Moderkitt	4/27/16
Matt Haynes	Operations	all	4/27/16
Deborah Durbin	Quality	Mulli	4/27/16

A copy of the executed protocol will be attached behind this report.



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I. PURPOSE:

The purpose of the protocol is to certify with documented evidence that the Auto Poucher #5 (PakSource PSG RP-6TZE-30 Serial #P-1521), functions as intended throughout its anticipated operating ranges. This final report provides documented evidence that the objectives, methodology, documentation, and test activities needed to complete the Installation Qualification (IQ), Operational Qualification (OQ) and Process Qualification (PQ) for the Auto Poucher #5 located at Giles Chemical Repackaging Unit, 109 Giles Place, Waynesville, NC were all executed and all acceptance criteria were met.

II. SUMMARY

This Auto Poucher #5 (PakSource PSG RP-6TZE-30 Serial #P-1521) was manufactured by Leepack, Inc and purchased new from PakSource Global, Inc in Sarasota, FL. PackSource had the machine manufactured in South Korea. It was installed at Giles in February of 2016. The machine is used to fill and seal pre-made plastic pouches, typically in 3 pound sizes.

The products that are impacted by this study were all Epsom Salt products manufactured by Giles Chemical. No other departments or systems were affected by the installation or use of this equipment.

The following tests were performed in this qualification:

Controls/Indicators Verification – to verify and document that the start/stop, emergency stop, and feed controls operate properly.

Lot code and expiration date verification: Verification of proper imprinting of the lot code and expiration date.

Sealed pouch: Verification that the Auto Poucher #5 securely seals the pouch.

Fill Weights: Verification that Auto Poucher #5 is capable of producing a finished product that contains a weight of Epsom Salt with a minimum of the label stated weight.

All Installation, Operational, and Performance acceptance criteria were met as displayed in the tables in the Appendices.

III. CONCLUSION

The results of the completed Installation Operational Performance Qualification protocol show that all acceptance criteria were met for all samples. All testing results provide documented evidence Auto Poucher #5 (PakSource PSG RP-6TZE-30 Serial #P-1521) is installed, operating, and performing as expected. Auto Poucher #5 (PakSource PSG RP-6TZE-30 Serial #P-1521) is considered validated.

IV. RECOMMENDATIONS

 It is recommended that Auto Poucher #5 (PakSource PSG RP-6TZE-30 Serial #P-1521), located at Giles Chemical Repackaging, 109 Giles Place, Waynesville, NC 28786 be considered validated based on meeting the acceptance criteria of the IO/OO/PO protocol.

V. REFERENCE:

E16-VAL-RIQ-901, Auto Poucher 5 IQ/OQ/PQ Protocol, rev 0, 2/17/2016



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Appendix I: INSTALLATION QUALIFICATION

A. Installation Qualification

01. Location

a. Verify that Auto Poucher #5 is positioned properly

Distance Criterion	Is the current area sufficient to open the access without obstructions (Yes/No)
Allow sufficient room around the machine for access doors and panels to be opened	YES
The machine must be located in an area that is adequately ventilated	YES

02. Level

a. It is important to make sure that the Auto Poucher #5 is level.

Is the unit level? (Yes/No)	Acceptable (Yes/No)
YES	YES

03. Utilities

a. Verify that unit is receiving its specified utility requirements.

Specified	Actual
240V +/- 20V for Machine	244.3
240V +/- 20V for Scale	244.5
60 Hz	60
A compressed air line should be in place	Yes



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Appendix II: OPERATIONAL QUALIFICATION

1. Controls/Indicators Verification – to document that the Auto Poucher #5 operates as described.

Description	Function	Did Item function properly (Yes/No)
Controls On/Off	With line power to the machine turned on, the controls switch powers up the control panel	YES
Infeed	The infeed button on the control screen starts the process of feeding pouches onto the carousel	YES
Emergency Stop	The emergency stop button stops the motion of the machine when pressed. It must be reset before the machine can be started again.	YES
Date Coder	Verify that the date coder stamps a date code on the pouch as it indexes to the date code station.	YES
Scale	Verify that when a pouch is presented by the carousel to the fill station that the filler dumps a charge into the properly presented pouch.	YES
Sealer	Verify that the sealing station seals the filled pouch when it indexes into the seal station	YES



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Appendix III: PERFORMANCE QUALIFICATION

A. Firmly Sealed: Verify That the Auto Poucher #5 firmly seals the pouch with no burn and no salt leakage. Run the Auto Poucher #5 for 4 hours while randomly sampling 25 pouches per hour for testing, for a total sample size of 100 pouches.

Table I

Sample #	Is the top sealed? (Yes/No)	Is the top scorched? (Yes/No)	Does the Seal Leak? (Yes/No)
1	YES	NO	NO
2	YES	NO	NO
3	YES	NO	NO
4	YES	NO	NO
5	YES	NO	NO
6	YES	NO	NO
7	YES	NO	NO
8	YES	NO	NO
9	YES	NO	NO
10	YES	NO	NO
11	YES	NO	NO
12	YES	NO	NO
13	YES	NO	NO
14	YES	NO	NO
15	YES	NO	NO
16	YES	NO	NO
17	YES	NO	NO
18	YES	NO	NO
19	YES	NO	NO
20	YES	NO	NO
21	YES	NO	NO
22	YES	NO	NO
23	YES	NO	NO
24	YES	NO	NO
25	YES	NO	NO



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APPENDIX III TABLE I CONTINUED

Sample #	Is the top sealed? (Yes/No)	Is the top scorched? (Yes/No)	Does the Seal Leak? (Yes/No)
26	YES	NO	NO
27	YES	NO	NO
28	YES	NO	NO
29	YES	NO	NO
30	YES	NO	NO
31	YES	NO	NO
32	YES	NO	NO
33	YES	NO	NO
34	YES	NO	NO
35	YES	NO	NO
36	YES	NO	NO
37	YES	NO	NO
38	YES	NO	NO
39	YES	NO	NO
40	YES	NO	NO
41	YES	NO	NO
42	YES	NO	NO
43	YES	NO	NO
44	YES	NO	NO
45	YES	NO	NO
46	YES	NO	NO
47	YES	NO	NO
48	YES	NO	NO
49	YES	NO	NO
50	YES	NO	NO



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APPENDIX III TABLE I CONTINUED

Sample #	Is the top sealed? (Yes/No)	Is the top scorched? (Yes/No)	Does the Seal Leak? (Yes/No)
51	YES	NO	NO
52	YES	NO	NO
53	YES	NO	NO
54	YES	NO	NO
55	YES	NO	NO
56	YES	NO	NO
57	YES	NO	NO
58	YES	NO	NO
59	YES	NO	NO
60	YES	NO	NO
61	YES	NO	NO
62	YES	NO	NO
63	YES	NO	NO
64	YES	NO	NO
65	YES	NO	NO
66	YES	NO	NO
67	YES	NO	NO
68	YES	NO	NO
69	YES	NO	NO
70	YES	NO	NO
71	YES	NO	NO
72	YES	NO	NO
73	YES	NO	NO
74	YES	NO	NO
75	YES	NO	NO



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APPENDIX III TABLE I CONTINUED

Sample	Is the top sealed?	Is the top	Does the Seal Leak?
#	(Yes/No)	(Yes/No)	(Yes/No)
76	YES	NO	NO
77	YES	NO	NO
78	YES	NO	NO
79	YES	NO	NO
80	YES	NO	NO
81	YES	NO	NO
82	YES	NO	NO
83	YES	NO	NO
84	YES	NO	NO
85	YES	NO	NO
86	YES	NO	NO
87	YES	NO	NO
88	YES	NO	NO
89	YES	NO	NO
90	YES	NO	NO
91	YES	NO	NO
92	YES	NO	NO
93	YES	NO	NO
94	YES	NO	NO
95	YES	NO	NO
96	YES	NO	NO
97	YES	NO	NO
98	YES	NO	NO
99	YES	NO	NO
100	YES	NO	NO



GILES CHEMICAL ~ PREMIER MAGNESIA Validation Protocol

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PERFORMANCE QUALIFICATION (Continued)

B. Date Code Imprinting: Verify that the date code is imprinted properly and accurately. Run the Auto Poucher #5 for 4 hours while randomly sampling 25 pouches per hour for testing, for a total sample size of 100 pouches.

Table II-

Sample #	Is the Date Code visible? (Yes/No)	Is the Date Code Correct? (Yes/No)
1	Yes	Yes
2	Yes	Yes
3	Yes	Yes
4	Yes	Yes
5	Yes	Yes
6	Yes	Yes
7	Yes	Yes
8	Yes	Yes
9	Yes	Yes
10	Yes	Yes
11	Yes	Yes
12	Yes	Yes
13	Yes	Yes
14	Yes	Yes
15	Yes	Yes
16	Yes	Yes
17	Yes	Yes
18	Yes	Yes
19	Yes	Yes
20	Yes	Yes
21	Yes	Yes
22	Yes	Yes
23	Yes	Yes
24	Yes	Yes
25	Yes	Yes



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APPENDIX III TABLE II CONTINUED -

Sample	Is the Date Code visible? (Yes/No)	Is the Date Code Correct? (Yes/No)
26	Yes	Yes
27	Yes	Yes
28	Yes	Yes
29	Yes	Yes
30	Yes	Yes
31	Yes	Yes
32	Yes	Yes
33	Yes	Yes
34	Yes	Yes
35	Yes	Yes
36	Yes	Yes
37	Yes	Yes
38	Yes	Yes
39	Yes	Yes
40	Yes	Yes
41	Yes	Yes
42	Yes	Yes
43	Yes	Yes
44	Yes	Yes
45	Yes	Yes
46	Yes	Yes
47	Yes	Yes
48	Yes	Yes
49	Yes	Yes
50	Yes	Yes



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APPENDIX III TABLE II CONTINUED -

Sample #	Is the Date Code visible? (Yes/No)	Is the Date Code Correct? (Yes/No)
51	Yes	Yes
52	Yes	Yes
53	Yes Yes	
54	Yes	Yes
55	Yes	Yes
56	Yes	Yes
57	Yes	Yes
58	Yes	Yes
59	Yes	Yes
60	Yes	Yes
61	Yes	Yes
62	Yes	Yes
63	Yes	Yes
64	Yes	Yes
65	Yes	Yes
66	Yes	Yes
67	Yes	Yes
68	Yes	Yes
69	Yes	Yes
70	Yes	Yes
71	Yes	Yes
72	Yes Yes	
73	Yes	Yes
74	Yes	Yes
75	Yes	Yes



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Sample #	Is the Date Code visible? (Yes/No)	Is the Date Code Correct? (Yes/No)	
76	Yes	Yes	
77	Yes	Yes	
78	Yes	Yes	
79	Yes	Yes	
80	Yes	Yes	
81	Yes	Yes	
82	Yes	Yes	
83	Yes	Yes	
84	Yes	Yes	
85	Yes	Yes	
86	Yes	Yes	
87	Yes	Yes	
88	Yes	Yes	
89	Yes	Yes	
90	Yes	Yes	
91	Yes	Yes	
92	Yes	Yes	
93	Yes	Yes	
94	Yes	Yes	
95	Yes	Yes	
96	Yes Yes		
97	Yes	Yes	
98	Yes	Yes	
99	Yes	Yes	
100	Yes	Yes	



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PERFORMANCE QUALIFICATION (Continued)

C. Fill Weights: Verify that the fill weights are within the accepted range of 3.00+ pounds (3.00 pounds minimum). Run the Auto Poucher #5 for 4 hours while randomly sampling 25 pouches per hour for testing, for a total sample size of 100 pouches.

Table III-

Sample #	Actual Weight	Acceptable (Yes/No)
1	3.07	YES
2	3.09	YES
3	3.10	YES
4	3.09	YES
5	3.06	YES
6	3.06	YES
7	3.06	YES
8	3.10	YES
9	3.07	YES
10	3.09	YES
11	3.10	YES
12	3.06	YES
13	3.06	YES
14	3.06	YES
15	3.06	YES
16	3.08	YES
17	3.08	YES
18	3.04	YES
19	3.06	YES
20	3.07	YES
21	3.10	YES
22	3.07	YES
23	3.06	YES
24	3.06	YES
25	3.08	YES



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Sample #	Actual Weight	Acceptable (Yes/No)
26	3.11	YES
27	3.09	YES
28	3.14	YES
29	3.13	YES
30	3.18	YES
31	3.16	YES
32	3.15	YES
33	3.14	YES
34	3.09	YES
35	3.06	YES
36	3.08	YES
37	3.10	YES
38	3.12	YES
39	3.11	YES
40	3.09	YES
41	3.10	YES
42	3.07	YES
43	3.11	YES
44	3.10	YES
45	3.09	YES
46	3.09	YES
47	3.08 YES	
48	3.07	YES
49	3.11	YES
50	3.07	YES



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APPENDIX III TABLE III CONTINUED -

Sample #	le Actual Weight Acceptable (Yes/No	
51	3.04	YES
52	3.05	YES
53	3.09	YES
54	3.07	YES
55	3.06	YES
56	3.03	YES
57	3.05	YES
58	3.06	YES
59	3.07	YES
60	3.06	YES
61	3.05	YES
62	3.05	YES
63	3.08	YES
64	3.08	YES
65	3.09	YES
66	3.09	YES
67	3.12	YES
68	3.08	YES
69	3.12	YES
70	3.12	YES
71	3.09	YES
72	3.11 YES	
73	3.08	YES
74	3.09	YES
75	3.10	YES



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Sample #	Actual Weight	Acceptable (Yes/No)
76	3.10	YES
77	3.09	YES
78	3.09	YES
79	3.12	YES
80	3.06	YES
81	3.06	YES
82	3.09	YES
83	3.10	YES
84	3.12	YES
85	3.10	YES
86	3.11	YES
87	3.11	YES
88	3.09	YES
89	3.08	YES
90	3.08	YES
91	3.07	YES
92	3.07	YES
93	3.05	YES
94	3.07	YES
95	3.07	YES
96	3.12 YES	
97	3.14 YES	
98	3.12	YES
99	3.13	YES
100	3.15	YES



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Approvals

Signing below indicates agreement that the protocol is ready for execution of the Installation, Operational, and Performance Qualification for Auto Poucher #5, PakSource PSG RP-6TZE-30, located at 109 Giles Place in Waynesville, NC.

Project Team Member	Functional Area	Signature	Date
Patrick Owen	Engineering		
Thomas Evans	Maintenance		
Monte Plott	Production		
Matt Haynes	Operations		
Deborah Durbin	Quality		

A final summary report that consists of results and conclusions based on the data collected after protocol execution will be written and approved. The executed protocol will be attached behind the report.



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I. PURPOSE:

The purpose of this protocol is to certify with documented evidence that the Auto Poucher #5 (Serial #P-1521), functions as intended throughout its anticipated operating ranges. This protocol sets forth the objectives, methodology, documentation, and test activities needed to complete the Installation Qualification (IQ), Operational Qualification (OQ) and Process Qualification (PQ) for the Auto Poucher #5 located at Giles Chemical, 109 Giles Place, Waynesville, NC.

II. BACKGROUND:

This Epsom Salt Auto Poucher #5 (serial # P-1521) was manufactured by Leepack and purchased used from Paksource Global, Inc. in Sarasota, FL. Paksource had the machine manufactured in South Korea and it will be installed at Giles in February 2016. The machine will be used to fill and seal pre-made plastic pouches, typically in 3 pound sizes.

The products that are impacted by this study are all Epsom Salt products manufactured by Giles Chemical.

III. OVERVIEW

No other departments or systems will be affected by the installation or use of this equipment.

The following tests will be performed in this qualification:

Controls/Indicators Verification – to document that the start/stop, emergency stop, and feed controls work properly.

Lot code and expiration date verification: Verification of proper imprinting of the lot code and expiration date.

Sealed pouch: Verification that Auto Poucher #5 securely seals the pouch.

Fill Weights: Verify that Auto Poucher #5 is capable of producing a finished product that contains a weight of Epsom Salt with a minmum of the label stated weight.

IV. SYSTEM DESCRIPTION:

A. Auto Poucher #5 will open, fill, and top seal plastic pouches with Epsom Salt. It is a 1 line system, opening filling, and sealing 1 pouch at a time.

B. Description of Operation

- 01. The empty pouches are fed into the machine by a vacuum cup system. The feeder system presents the pouches to a set of gripper arms. There are 6 sets of gripper arms mounted on a carousel. The carousel rotates the pouch through each station of the machine with intermittent motion.
- 02. The pouch is fed to the gripper arms, then rotates to a date stamp station where the date code is applied. Then the pouch rotates to a zipper opening station. There, mechanical flaps open the pouch for filling. The next station is the pouch detect, air blow station. A vacuum sensor detects if suction cups are successful in opening the pouch, and air is injected into the open pouch in anticipation of filling. The next station is for filling. A cup filler dumps a premeasured charge of salt into the pouch.
- 03. The pouch then indexes to the sealing station, where to top of the pouch is sealed. Finally the pouch indexes to the drop station where the gripper arms release it onto a discharge conveyor.
- 04. From the discharge conveyor, the pouches are dropped onto a packing conveyor. Finally, the pouches are then manually packed into case packaging.

V. SCOPE

The Installation Operational Performance Qualification protocol is intended to certify with documented evidence that Auto Poucher #5 is installed, operates, and functions as intended throughout its anticipated operating ranges.

VI. ROLES AND RESPONSIBILITIES

- 1. Engineering
 - Write and issue the protocol
 - Investigate protocol deviation reports



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- Execute the OQ and manage the data collection for the PQ.
- Review raw data and originate interim notification to Quality Assurance
- Write and route the final report
- 2. Quality Assurance
 - Review and approve the protocol.
 - Review and approve raw data and notifications.
 - Review, approve, and store the final report.
- 3. Maintenance
 - Provide Equipment Manuals needed to execute operational qualification.
 - Review and approve the protocol.
 - Execute the IQ.
 - Review and approve raw data and notifications.
 - Review and approve the final report
- 4. Production
 - * Execute the PQ.
 - Review and approve the final report.

VII. TEST PROGRAM

A. INSTALLATION QUALIFICATION

Objective

The objective of the installation verification is to document that Auto Poucher #5 is installed as indicated by Paksource Global, LLC..

Equipment/Materials

Auto Poucher #5, PakSource Global LLC PSG RP-6TZ-30 (serial #P-1521)

Ideal Digital Multimeter Model #61-340 (SN 100100221)

Procedure

Perform each listed below for Auto Poucher #5.

- Location: Verify that the equipment is situated to allow sufficient room around the machine for access doors and panels to be opened.
- Level: Verify instrument is level.
- Utilities
 - o Electrical Requirements: Verify that instrument is receiving its specified Voltage,

Acceptance Criteria

Ensure that the installation is in accordance with the manual's specifications.

B. OPERATION QUALIFICATION

Objective



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The objective of Controls/Indicators Verification is to document that Auto Poucher #5 operates as indicated by Leepack. The controls will be operated to test the ability of Auto Poucher #5 to provide adequate control for starting/stopping, pouch feed, and emergency stop.

Equipment/Materials

Auto Poucher #5, PakSource Global LLC PSG RP-6TZ-30 (serial # P-1521)

Procedure

Test each operation of Auto Poucher #5

Acceptance Criteria

Verification that start/stop, infeed, and emergency stop controls function as indicated by operation manual

C. PERFORMANCE QUALIFICATION

Objective

The objective of performance testing is to document that Auto Poucher #5 performs the function required by Giles Chemical. The final product will be tested to verify:

- That Auto Poucher #5 firmly seals pouch.
- That the lot code and expiration date numbers are printed properly and accurately.
- That the fill weights are within the accepted range (3.0+ pounds for 3 pound pouches).

Equipment/Materials

Auto Poucher #5, PakSource Global LLC PSG RP-6TZ-30 (serial # P-1521)

Empty Pouch(es) (for tare)

Scale

Procedure

Run Auto Poucher #5 on 3 pound pouches for 4 hours while randomly sampling 25 pouches per hour for testing, for a total sample size of 100 pouches.

Examine the finished product and check for:

- That Auto Poucher #5 firmly seals the carton on both ends.
- That the lot code and expiration date numbers are imprinted properly and accurately.
- That the fill weights are within the accepted range.

Acceptance Criteria

Auto Poucher #5 firmly seals the carton on both ends.

Auto Poucher #5 correctly imprints the lot code and expiration date.

That the fill weights are within the accepted range of 3.00+ pounds for 3 pound pouches.



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VIII. CALIBRATION

Verify that all instrumentation that requires calibration is calibrated.

- Scale
- Ideal Digital Multimeter Model #61-340 (SN 100100221)

IX. REFERENCE:

Paksource Global, LLC Operation Manual



Validation Protocol

Revision: 0

Title: Auto Poucher 5 IQ/OQ/PQ Protocol Number: E16-VAL-RIQ-901

Owner: Patrick Owen

Effective Date: February 17, 2015 Page: 7 of 15



AUTO POUCHER #4: INSTALLATION QUALIFICATION

A. Installation Qualification

01. Location

a. Verify that Auto Poucher #5 is positioned properly

	LOCATION		
Distance Criterion	Is the current area sufficient to open the access without	Verified By	Date
	obstructions (Yes/No)		
Allow sufficient room around the machine	1/	N	2/-1.
for access doors and panels to be opened	7.65	12	3/3/16
The machine must be located in an area	1/	M	71-1
that is adequately ventilated	Yes	1/2-	3/3/16

Comments:

DE. 3/3/16

02. Level

a. It is important to make sure that the Auto Poucher #5 is level.

	LEYI	¢L	
Is the unit level? (Yes/No)	Acceptable (Yes/No)	 AND AND AND AND AND AND AND AND AND AND	Date
Yes	Yes	H	3/3/14
Comments:			

DE 3/3/16

03. Utilities

a. Verify that unit is receiving its specified utility requirements.

	UTILIES			
	Electrical			
Specified	Actual	Verified By	Date	
240 V +/- 20 V for Machine	243.4	The state of the s	3/3/16	
240 V +/- 20 V for Scale	243.5	TE	3/3/16	
60 Hz	60	R	3/3/16	
	Air			
The machine requires compressed air.				
A compressed air line should be in place	Yes	The	3/3/16	
Comments: /				TE 3/3/16
Reviewed By:		late: <u>3-3-</u>	16	-1-710



Validation Protocol

Title: Auto Poucher 5 IQ/OQ/PQ Protocol Number: E16-VAL-RIQ-901

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AUTO POUCHER #4: OPERATIONAL QUALIFICATION

B. Operation Qualification

01. Controls/Indicators Verification — to document that Auto Poucher #5 operates as described.

Controls/Indicators Verification				
Description	Function	Did Item function properly (Yes/No)	Verified By	Date
	Former			
Controls On/Off	With line power to the machine turned on, the control switch powers up the control panel	Yes	R	3/3/10
Infeed	The infeed button on the control screen starts the process of feeding pouches onto the carousel	Yes	The	3/3//
Emergency Stop	The emergency stop button stops the motion of the machine when pressed. It must be reset before the machine can be started again.	Yes	He	3/3/1
Date Coder	Verify that the date coder stamps a date code on the pouch as it indexes to the date code station.	Yes	Æ	3/3//
Scale	Verify that when a pouch is presented by the carousel to the fill station that the filler dumps a charge into the properly presented pouch.	Yes	NE.	3/3//
Sealer	Verify that the sealing station seals the filled pouch when it indexes into the seal station.	Yes	JE.	3/3/1
Comments:				

H 3/3/16

Reviewed By:

Data

3-3-16



Validation Protocol

Title: Auto Poucher 5 IQ/OQ/PQ Protocol

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AUTO POUCHER #5: PERFORMANCE QUALIFICATION

Effective Date: February 17, 2015

C. Firmly Sealed: Verify That Auto Poucher #5 firmly seals the pouch.

Run Auto Poucher #5 for 4 hours while randomly sampling 25 pouches per hour for testing, for a total sample size of 100

pouches.

	Pouch S	ealing	Tria	l /	- of 4 - □
Sample #	Is the top sealed? (Yes/No)	Is the top scorched? (Yes/No)	Does the seal leak? (Yes/No)	Verified By	Date
1	Yes	No	No	M.	3/3/16
2	4es	No	No	\mathcal{N}	3/3/16
3	Yes	No	No	N	3/3/16
4	Yes	No	No	H	3/3/16
5	Yes	No	No	16	3/3/10
6	Yes .	No	No	n	3/3/10
7	Yes	No	No	N	3/3/18
8	Yes	No	No	H	3/3/16
9	Yes	No	di	The	3/3/16
10	Yes	Wo	p/s	H	3/3/16
11	Yes	No	No	The	3/3/16
12	Y.es	No	No	She	3/3/16
13	Yes	No	No	N	3/3/10
14	les	No	No	Sk	3/3/16
15	Yes	No	No	The	3/3/10
16	Yes	No	$\mathcal{N}_{\mathfrak{o}}$	H	3/3/16
17	Yes	No	N_{o}	New	3/3/10
18	Yes	No	No	Hz.	3/3/10
19	Yes	Nr	No	The	3/3/16
20	Yes	No	N_{\circ}	S. T.	3/3/16
21	Yes	No	No	The	3/3/16
22	Yes	No.	No	The	3/3/11
23	Yes	No	\mathcal{N}_{v}	The state of	3/3/10
24	Yes	No	No	The state of the s	3/3/10
25	Yes	16	Ne	No.	3/3/10
Co	mments:	I			

SE_ 3/3/11

Reviewed By:

Date:



Validation Protocol

Title: Auto Poucher 5 IQ/OQ/PQ Protocol

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AUTO POUCHER #5: PERFORMANCE QUALIFICATION

C. Firmly Sealed: Verify That Auto Poucher #5 firmly seals the pouch.

Run Auto Poucher #5 for 4 hours while randomly sampling 25 pouches per hour for testing, for a total sample size of 100

pouches.

Pouch Sealing			Trial 2		of 4
Sample #	Is the top sealed? (Yes/No)	Is the top scorched? (Yes/No)	Does the seal leak? (Yes/No)	Verified By	Date
1	Yes	No	No	The state of the s	3/3/16
2	Yes	No	No	32	3/3/16
3	Yes	No	No	R	3/3/16
4	Yes	No	No	\mathcal{H}	3/3/16
5	Yes	No	No	N	3/3/16
6	Yes	No	16	Th-	3/3/16
7	425	No	No	H-	3/3/16
8	Yes	No	No	\mathcal{H}	3/3/16
9	Ye.5	No	No	R	3/3/16
10	Yes	No	No	The	3/3/16
11	Yes	No	No	The	3/3/16
12	Yes	No	No	The	3/3/16
13	425	No	p/s	The	3/3/16
14	Yes	No	No No No	M.	3/3/16
15	Yes	No	N_i	Th	3/3/16
16	Ves	No	N.	N-	3/3/16
17	Yes	No	No No	<i>Ph</i>	3/3/16
18	Yes	No	No	H_	3/3/16
19	les .	N	No	R	3/3/16
20	Yes	N_e	16	H	3/3/16
21	Yes	No	ps	7	3/3/16
22	Yes	No	No	M	3/3/16
23	Yes	No	No	R	3/3/16
24	Yes	No	Nu	H	3/3/16
25	Yes	No	No	The state of	3/3/16
Co	omments:				

Reviewed By:

Date:



Validation Protocol

Title: Auto Poucher 5 IQ/OQ/PQ Protocol Number: E16-VAL-RIQ-901

Owner: Patrick Owen Revision: 0

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AUTO POUCHER #5: PERFORMANCE QUALIFICATION

C. Firmly Sealed: Verify That Auto Poucher #5 firmly seals the pouch.

Run Auto Poucher #5 for 4 hours while randomly sampling 25 pouches per hour for testing, for a total sample size of 100 pouches.

(Yes/No) (Yes/No) (Yes/No)	ris in dellar Propinsion	Pouch S	Sealing	Tria	1 3	of 4
2	Sample #	sealed?	scorched?	leak?		Date
3 Yes No No No No No No No N	1	Yes .	No	No	- Th	3/3/16
3	2	Yes	No	No	11,	3/3/16
5	3	Yes	1	No	The	3/3/16
6	4	Yes	No	No	Th.	3/3/16
7	5	Yes	No	No	The	3/3/16
8	6	Yes	No	N.	R	3/3/16
9	7	les	No	No	The	3/3/16
9	8	Yes .	N.		M	3/3/11
10 Yes No	9	Yes	ps	No	The	3/3/16
12	10	Les	No		The	3/3/16
13	11	Yes	No	No	The	3/3/16
13 Yes No No No No 14 31 14 Yes No No No No 15 15 Yes No No No 16 16 Yes No No No 16 17 Yes No No No 16 18 Yes No No No 16 19 Yes No No No 16 20 Yes No No No 16 21 Yes No No No 16 22 Yes No No No 16 23 Yes No No No 16 24 Yes No No No 16 25 Yes No No No 16 31	12	Yes	No	No	1/2	3/3/16
15 Yes No No No 3/1 16 Yes No No No No 3/1 17 Yes No No No 3/1 18 Yes No No No 3/1 19 Yes No No No 3/1 20 Yes No No No 3/1 21 Yes No No No 3/1 22 Yes No No No 3/1 23 Yes No No No 3/1 24 Yes No No No 3/1 25 Yes No No No 3/1 3/	13	Yes		ns	The	3/3/16
16	14	48	No	Rh	2/2	3/3/16
17	15	1/25	No	No	The	3/3/16
18	16	Yas	No	K6	The	3/3/11
19	17	425	No	. No	The	3/3/18
20 Yes No No No 3/2 3/21 Yes No No No 3/2 3/22 Yes No No No 3/2 3/25 Yes No No No 3/2 3/25 Yes No No No 3/2 3/25	18	Yes	No	N,	Th_	3/3/16
21 Yes M. M. 3, 22 Yes M. M. M. 3/ 23 Yes M. M. M. 3/ 24 Yes M. M. M. 3/ 25 Yes M. M. M. 3/ 26 3/	19	Yes	$N_{\mathfrak{F}}$	No	The	3/3/16
22 Yes No No 3/2 3/23 Yes No No No 3/2 3/24 Yes No No No 3/2 3/25 Yes No No No 3/2 3/25 Yes No No No 3/2 3/25	20	Yes	No	No	The	3/3/16
23 Yes No No 3/ 24 Yes No No 3/ 25 Yes No No 3/ 3/	21	405		N_b	1/2	3/3/16
23 Yes No No 3/ 24 Yos No No 3/ 25 Yes No No 3/ 3/	22	405	No	No	The	3/3/16
24 Yes No No 3/ 25 Yes No No 3/	23	Yes	No		K	1 1
25 Yes No No 3/	24	Yes		No	A.	
No state of the restaurance of the control of the c	25	405		1		3/3/16
Comments	Co	mments:	f-i-mining.			

J& 3/3/16

Reviewed By:

Date

3/3/10



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AUTO POUCHER #5: PERFORMANCE QUALIFICATION

C. Firmly Sealed: Verify That Auto Poucher #5 firmly seals the pouch.

Run Auto Poucher #5 for 4 hours while randomly sampling 25 pouches per hour for testing, for a total sample size of 100

pouches.

	Pouch S	ealing	Tria	i 4	of 4
Sample #	Is the top sealed? (Yes/No)	Is the top scorched? (Yes/No)	Does the seal leak? (Yes/No)	Verified By	Date
1	Yes	No	No	H	3/3/16
2	Yes	No	N	Th.	3/3/16
3	ye5	No	Wo	M	3/3/16
4	Yes	No	No	The	3/3/16
5	405	No	Nr.	The	3/3/16
6	Yes	No	N6	The	3/3/16
7	405	No	No	The	3/3/16
8	Yes	No	\mathcal{N}_{o}	The	3/3/16
9	Yes	No	No	Th	3/3/16
10	Yes	No	No	26	3/3/16
11	Yes	No	No	The	3/3/16
12	Yes	No	16	H.	3/3/16
13	Yes .	No	No	H	3/3/16
14	405	No	No	The	3/3/16
15	Yes	N6	N/s	The-	3/3/16
16	Yes	No	N/s	R	3/3/16
17	Yes	16	16	The	3/3/16
18	Yes.	No	No	The	3/3/16
19	Yes	No	No	The .	3/3/16
20	405	N5	No	The	3/3/16
21	Yes	No	No	1/2	3/3/16
22	Yes	No	N6	M	3/3/16
23	Yes .	No	No	He	3/3/16
24	Yes	No	16	The	3/3/16
25	Yes	N.	M	H K	3/3/16
Co	mments:				

Reviewed By:



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AUTO POUCHER #5: PERFORMANCE QUALIFICATION (Continued)

A. Date Code Imprinting: Verify that the date code is imprinted properly and accurately.

Run the Auto Poucher #5 for 4 hours while randomly sampling 25 pouches per hour for testing, for a total sample size of 100 pouches.

	Lot Code and Expiration	Trial	/ of 4	
Sample #	Is the Date Code visible? (Yes/No)	Is the Date Code correct? (Yes/No)	Verified By	Date
1	Yes	Yos	The	3/3/16
2	Yes	Yes	The	3/3/16
3	Yes	Yes	H	3/3/16
4	Yes	Yes	H	3/3/16
5	Yes	Yes	The state of the s	3/3/16
6	Yes	Yes	The.	3/3/16
7	Yes	Yes	The	3/3/16
8	Yes	Yes ·	The	3/3/16
9	Yes	Ves	W.	3/3/16
10	Yes	Yes	M.	3/3/16
11	Yes	Yes .	The	3/3/16
12	Yes	Yes	M.	3/3/16
13	Yes	Yes .	The	3/3/16
14	Yes	Yes	The	3/3/16
15	Yes	Yes	Ne.	3/3/16
16	Yes	Yes	Th	3/3/16
17	Yes	Yes .	Me	3/3/16
18	Yas	Yes	Mr.	3/3/16
19	Yes .	/es	Jh.	3/3/11
20	48	Yes	Mr	3/3/16
21	Yes	Yes	<u> </u>	3/3/16
22	Yes	Yes	Jk-	3/3/16
23	Yes	Yes	Hz.	3/3/16
24	Yes	Yes	H.	3/3/16
25	Yes	Yes .	The	3/3/18
Common	80 (%) 64 (*)			_

Comments:

JE 3/3/16

Reviewed By:

Date:

3/3/14

Controlled Document



Validation Protocol

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AUTO POUCHER #5: PERFORMANCE QUALIFICATION (Continued)

A. Date Code Imprinting: Verify that the date code is imprinted properly and accurately.

Run the Auto Poucher #5 for 4 hours while randomly sampling 25 pouches per hour for testing, for a total sample size of 100 pouches.

	Lot Code and Expiratio		Trial	2 of 4
Sample #	Is the Date Code visible? (Yes/No)		Verified By	Date 1
1	Yes	Yes	He	3/3/16
2	Yes	. Yes	1/4	3/3/16
3	Ves	Yes	1/2	3/3/16
4	Yes	Yes	H	3/3/16
5	Yés	Yes	H	3/3/16
6	Yes	Yes	The	3/3/16
7	Yes	Yes	The	3/3/16
8	Yes	Yes	Th	3/3/14
9	Yes	Yes	1/2	3/3/16
10	Yes	Yes	The	3/3/16
11	Yes	1/es	Th	3/3/16
12	Yes	Yes	The	3/3/16
13	Yes	Yes	1/2	3/3/16
14	Yes	Yes	The	3/3/16
15	Yes	Yes	The	3/3/16
16	Yes	Yes	Th	3/3/16
17	Yes	1/es	Jh.	3/3/16
18	Yes	les	The	3/3/16
19	les_	Yes	The	3/3/16
20	Yes	Yes .	Th	3/3/16
21	Yes	Yes .	H	3/3/18
22	Yes	Yes	The	3/3/16
23	48	Yes	The	3/3/16
24	Yes	Yes	The	3/3/16
25	Yes .	Yes .	No	3/3/16
	Nia			7 7

Comments:

Date:

3/3/16

Reviewed By:

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AUTO POUCHER #5: PERFORMANCE QUALIFICATION (Continued)

A. Date Code Imprinting: Verify that the date code is imprinted properly and accurately.

Run the Auto Poucher #5 for 4 hours while randomly sampling 25 pouches per hour for testing, for a total sample size of 100 pouches.

	Lot Code and Expiration		Trial	3 of 4
Sample #	Is the Date Code visible? (Yes/No)	Is the Date Code correct? (Yes/No)	Verified By	Date
1	Yes	Yes	1/2	3/3/16
2	1/es	· Yes	Ne	3/3/16
3	Yes	Yes	H	3/3/16
4	Yes	Yes	K	3/3/16
5	Yes	Yes	H.	3/3/16
6	Yes	Yes	H	3/3/16
7	Yes	Yes	1/2	3/3/16
8	Yes	Yes	H	3/3/16
9	765	Yes	The	3/3/16
10	<u>Yes</u>	yes	16	3/3/16
11	Yes	Yes	The state of the s	3/3/16
12	Yes	Yes	The -	3/3/16
13	Yes	Ves	H	3/3/16
14	Yes	Yes	H	3/3/16
15	Yes	Yes	The	3/3/16
16	Yes	Yes	<u> K</u>	3/3/16
17	Yes	Yes	The	3/3/16
18	<i>yes</i>	Yes	The second	3/3/16
19	Yes	Yes	Th	3/3/16
20	Ye5	Yes	H	3/3/16
21	Yes	Yes	The state of the s	3/3/16
22	Yes	Yes		3/3/16
23	Yes	Yes	the	3/3/16
24	4.65	Yes	<i>h</i>	3/3/16
25	Y-65	Yes	Th	3/3/16
Barre of		•	-	-

Comments:

DE 3/3/16

Reviewed By:

Date:

3/3/1



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AUTO POUCHER #5: PERFORMANCE QUALIFICATION (Continued)

A. Date Code Imprinting: Verify that the date code is imprinted properly and accurately.

Run the Auto Poucher #5 for 4 hours while randomly sampling 25 pouches per hour for testing, for a total sample size of 100 pouches.

Lot Code and Expiration Date Imprinting			Trial	4 of 4
Sample #	Is the Date Code visible? (Yes/No)	Is the Date Code correct? (Yes/No)	Verified By	Date
1	405	Yes	1/2	3/3/16
2	Ye5	- Yes	26	3/3/16
3	Yes	Yes	The	3/3/16
4	Yes	Yes	The	3/3/16
5	425	Yes	The	3/3/16
6	1/05	4es	H	3/3/16
7	40.5	Yes .	Me	3/3/16
8	Yes	Yes	Th	3/3/16
9	Yes	Yes	H	3/3/16
10	Yes	Yes	Th	3/3/16
11	Yes	Yes	The	3/3/11
12	Yes	Yes	The	3/3/16
13	Yes	Yes	K	3/3/18
14	Yes	Yes	H	3/3/K
15	Yes	1/65	H	3/3/18
16	Yes:	Yes	The The	3/3/11
17	Yes	Yes	Th	3/3/16
18	Yes	Yes	Th	3/3/16
19	Yes	Yes	The	3/3/16
20	Yes	Yes	H	3/3/16
21	Yes	yes	16	3/3/16
22	Yes	Yes	The	3/3/16
23	Yes	Yes	The	3/3/16
24	Yes	Yes	"The	3/3/16
25	Yes	Yes	The state of the s	3/3/16
Comments				

Comments:

Reviewed By:

Date:

3/2/16

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AUTO POUCHER #5: PERFORMANCE QUALIFICATION (Continued)

A. Fill Weights: Verify that the fill weights are within the accepted range of 3.00+ pounds. Run the Auto Poucher #5 for 4 hours while randomly sampling 25 pouches per hour for testing, for a total sample size of 100 cartons.

 d) Label the first of the case of the control of the control of the following of the case of the control of the case of the c	Fill Weights	Tri	al / of 4
le Actual Weight ()	Yes/No) Acceptable (Yes/	No) Verified By	Date
3.02	405	1/2	3/3/16
3.09	Yes	N.	3/3/16
3.10	Yes	H	3/3/16
3.09	Yes	1/2	3/4/16
3,06	Yes	K	3/3/16
3,06	Yes	R	3/3/16
3.06	Yes	H	3/3/16
3.10	Yes	1/2	3/3/16
3,07	Yes	N	3/3/16
3,69	Yes	N	3/3/16
3.10	Yes	N	3/3/16
3.06	Yes	R	3/3/16
3.06	Yes	N	3/3/16
3,06	Yes	1/2	3/3/16
3.06	Yes	Ne	3/3/16
3,08	Yes	The	3/3/16
3.08	Yes	N	3/3/16
3.04	Yes	1/2 1/2	3/3/16
3,06	Yes	H	3/3/16
3.07	Yes	N	3/3/16
3,10	Yes	12	3/3/16
3.07	Yes	n	3/3/16
3,06	Yes	No.	3/3/11
3. 66	Yes	The	3/3/16
3.08	Yes	H	3/3/18
ents:			

Reviewed By:

Date:



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AUTO POUCHER #5: PERFORMANCE QUALIFICATION (Continued)

A. Fill Weights: Verify that the fill weights are within the accepted range of 3.00+ pounds. Run the Auto Poucher #5 for 4 hours while randomly sampling 25 pouches per hour for testing, for a total sample size of 100 cartons.

	Fill V	Veights	Trial	2 of 4
Sample #	Actual Weight (Yes/No)	Acceptable (Yes/No)	Verified By	Date
1	3.//	Yes	1/2	3/3/16
2	3,09	Yes	1	3/3/16
3	3.14	Yes	The	3/3/16
4	3.13	Yes	NE	3/3/16
5	3.18	Yes	N/L	3/3/16
6	3.16	Ves	M	3/3/16
7	3.15	Yes	The The	3/3/16
8	3,14	Yes	R	3/3/16
9	3.09	Yes	Jr. H	3/3/16
10	3.06	Yes	"M	3/3/16
11	3.08	Yes	The	3/3/16
12	3.10	Yes	1/2	3/3/11
13	3.12	Yes	The	3/3/16
14	3.1/	Yes	The	3/3/12
15	3,09	Yes	The	3/3/16
16	3,10	Yes:	HE.	3/3/16
17	3.07	Yes	JE Je	3/3/16
18	3+11	Yes	The	3/3/16
19	3.10	Yes	1/2	3/3/16
20	3,09	Ye s	The state of	3/3/16
21	3,09	Yes	Nr.	3/3/12
22	3.08	Yes	1 /2	3/3/16
23	3,07	Yer	The	3/3/16
24	3.77	Yes	1/2	3/3/16
5	3,00	Yes	H	3/3/16
iments:				
	0	<u> </u>		

Reviewed By:

Date:

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MAGNESIA, LLC

AUTO POUCHER #5: PERFORMANCE QUALIFICATION (Continued)

A. Fill Weights: Verify that the fill weights are within the accepted range of 3.00+ pounds. Run the Auto Poucher #5 for 4 hours while randomly sampling 25 pouches per hour for testing, for a total sample size of 100 cartons.

	Fill V	Veights	Trial	3 of 4
Sample #	Actual Weight (Yes/No)	Acceptable (Yes/No)	Verified By	Date
1	3.04	405	1/2	3/3/11
2	3.05	Yes	16	3/3/16
3	3.09	Yes	12	3/3/1/
4	3.07	Yes	R	3/3/16
5	3.06	Yes	The	3/3/16
6	3,03	Yes	R	3/3/16
7	3.05	Yes	R	3/3/16
8	3,06	405	R	3/3/16
9	3,07	Yes	The	3/3/16
10	3.66	Yes	Ne	3/3/16
11	3.05	Yes .	Pr Je	3/3/11
12	3,05	Yes Yes	N	3/3/11
13	3.08	Yes	Ph	3/3/16
14	3,08	Yes	Je Je	3/3/16
15	3.09	Yes	H	3/3/16
16	3,09	Yes	74	3/3/16
17	3.12	Yes:	R	3/3/16
18	3, 08	Yes .	JE	3/3/16
19	3,12	Ves	Jr.	3/3/16
20	3112	Yes	JE-	3/3/16
21	3.09	Yes	The	3/3/16
22	3.11	Yes	R	3/3/16
23	3.08	Yes	H.	3/3/11
24	3.09	Yes	R R R	3/3/16
25	3, 10	Yes	R	3/3/16
mments:				7 7/10

Date:

Reviewed By:

Controlled Document



Validation Protocol

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Owner: Patrick Owen Revision: 0 Effective Date: February 17, 2015

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AUTO POUCHER #5: PERFORMANCE QUALIFICATION (Continued)

A. Fill Weights: Verify that the fill weights are within the accepted range of 3.00+ pounds. Run the Auto Poucher #5 for 4 hours while randomly sampling 25 pouches per hour for testing, for a total sample size of 100 cartons.

	Fill W	eights	Trial	4 of 4
Sample #	Actual Weight (Yes/No)	Acceptable (Yes/No)	Verified By	Date
1	3.10	Yes	16	3/3/16
2	3,09	Ves	The state of the s	3/3/16
3	3.09	Yes	The state of the s	3/3/16
4	3,12	Yes	K	3/3/16
5	3.06	Yes	The	3/3/16
6	3.06	Yes	The	3/3/16
7	3,69	Yes	The	3/3/16
8	3.10	Yes	R	3/3/16
9	3,12	Yes	H	3/3/16
10	3,10	Yos	1/2	3/3/16
11	3.11	Yes	The	3/3/16
12	3.11	Yes	12	3/3/16
13	3.09	Yes	Th	3/3/16
14	3.08	Yes	R	3/3/16
15	3.08	Yes	The	3/3/16
16	3,00	Yes:	The	3/3/16
17	3,07	Yes	Th	3/3/16
18	3,05	Yes	72	3/3/16
19	3.07	Yes	R	3/3/16
20	3,07	Yes	1/2	3/3/16
21	3.12	Yes	R	3/3/16
22	3,14	Yes	The	3/3/16
23	3,12	Yes	The	3/3/16
24	3.13	Yes	1/2	3/3/16
25	3.15	Yes	72	3/3/16

Comments:

Reviewed By:

Date:



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CALIBRATION VERIFICATION

Equipment	Serial #	Calibration Date	Calibration Due Date	Verified By	Date
Scale	56519035BM	2/25/16	3/25/16	Hz.	3/3/16
Multimeter	100100221	manufacture	MA	R	3/3/16

Reviewed By:

Date:



Validation Protocol

Title: Auto Poucher 5 IQ/OQ/PQ Protocol Number: E16-VAL-RIQ-901

Owner: Patrick Owen Revision: 0

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ATTACHMENT I - PROTOCOL DEVIATION REPORT LOG

Log each Protocol Deviation Report in the table below. Attach the PDRs to this Attachment.

PDR#	DESCRIPTION	DATE INITIATED	DATE RESOLVED
STATE OF THE PARTY OF THE		- INITIATED :	KESOLYED
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Comments:			

Jr 3/3/16



Validation Protocol

Revision: 0

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Owner: Patrick Owen

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ATTACHMENT II. PROTOCOL DEVIATION REPORT (PDR)

		General Information
System	Name:	Protocol Number:
-	\	Protocol Step & Page No.:
24,111	on roport runnos.	Instructions
1.	The validation specialist assign For example, 001, 002, etc. can	a sequential report number for each deviation with a specific protocol.
2.	Reference the relevant protocol	number, step and page number of the noted deviation above.
3.	Complete the below listed section	ons. If necessary, use additional pages and attach any supporting info.
4.	Include the original PDR(s) wit Report.	n the protocol as an attachment. Summarize the impact of the deviation in the Validation
Descrip	tion of Deviation:	
Investig	ation Evaluation and Results:	Jz- 3/3/16
Correcti	ive Action and Resolution:	
Overall	Investigation Review:	
Duon	I Post	Deter
Prepared	l By:	Date:



Validation Protocol

Title: Auto Poucher 5 IQ/OQ/PQ Protocol Number: E16-VAL-RIQ-901

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ATTACHMENT III - SIGNATURE IDENTIFICATION LOG SHEET

Identify in the table below any personnel involved in the execution of this protocol.

Name	Affiliation	Signature	Initial	Date
Thomas Frans	Engineery/Maint. Duality	Momes Evan	R	3/3/16
brook Vaudun	Nuality	Black	BV	3-3-16

		-		
				:

BRASWELL SCALE & EQUIP. CO., INC.

1180 Sweeten Creek Road • P.O. Box 5422 Asheville, N.C. 28803-5422

828-274-3771

800-225-0986 •

FAX 828-274-4823



CERTIFICATE OF CALIBRATION CERTIFICATE NUMBER [1]



	Glies Chemical		
Customer Name:	200 Smalltera Street		
Street Address:			
City:	Waynowille, N.C. 28788		
Balance!			
· · · · · · · · · · · · · · · · · · ·	letter-Toledo	Capacity:	
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Serial No.:	On 1900stan	Location/Department: _	Tantary / Po Pu
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Non-Repeatability:		Non-Repeatability:	The state of the s
Corner Load Error:	+-401	Corner Load Error:	
Test Weight	Balance Reading	Balance Reading	
Applied	Before Calibration	After Calibration	
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	sed for this test are traceable to the N	lational Institute of Standards	and Technology (NIST)
Class S	Class 1 Class 2	Class F	TATE ALL INO. YEX YOUR SERVICE
Certified by: 13/1/2	n He le ola son De	ate: 2-25-1/2	
to the month follow	시작, 전 등 사람이 되는 사항 취약 시간 중		19. 黄水花风水都看到一台,有大大牛品屋的绿泥