

Laboratory Report

Report prepared for:

Ray D. Gardner, Jr.
The Elco Corporation
1000 Belt Line Street
Columbus, OH 44109
Phone: 216-749-2605 ext. 225
Email: rgardner@elcocorp.com

Report prepared by:

Salvador Pastor

Purchase Order:**For further assistance, contact:**

Salvador Pastor
Technical Manager
PO Box 51610
Knoxville, TN 37950 -1610
(865) 546-1335
salpastor@galbraith.com

Analysis		Method	Result	Basis	Sample Amount Used	Date (Time)
Sample: Lot: 070915-122 HCl by ACS						
Lab ID: 2015-Z-7238			Received: 2015-07-22			
<i>118: Residue on Ignition (ROI)</i>						
		Reagent Chemicals 10th Ed Supp 3	< 0.0005 %	As Received	200 g	2015-07-31
		Reagent Chemicals 10th Ed Supp 3	< 0.0005 %	As Received	200 g	2015-07-31
<i>362: Heavy Metals Method II</i>						
		Reagent Chemicals 10th Ed Supp 3	< 1 ppm	As Received	20.0371 g	2015-08-03
		Reagent Chemicals 10th Ed Supp 3 (matrix spike) ¹	≥ 1 ppm	As Received	20.0949 g	2015-08-03
<i>408: Color</i>						
		Reagent Chemicals 10th Ed Supp 3	1	As Received	100 mL	2015-08-03
		Reagent Chemicals 10th Ed Supp 3	1	As Received	100 mL	2015-08-03
<i>711: Ammonium by IC</i>						
		GLI Procedure ME-4D	< 1 ppm	As Received	1113.63 mg	2015-08-03
		GLI Procedure ME-4D (matrix spike) ²	78.45 % Recovery	As Received	1120.17 mg	2015-08-03
<i>774: Br/I, Free Br/Cl, SO4/SO3</i>						
		Reagent Chemicals 10th Ed Supp 3 ³	< 0.005 %	As Received	1.0 mL	2015-07-28
		Reagent Chemicals 10th Ed Supp 3 (matrix spike) ⁴	≥ 0.005 %	As Received	1.0 mL	2015-07-28
		Reagent Chemicals 10th Ed Supp 3 ⁵	< 1 ppm	As Received	48.78480 g	2015-07-31
		Reagent Chemicals 10th Ed Supp 3 (matrix spike) ⁶	≥ 1 ppm	As Received	48.89073 g	2015-07-31
		Reagent Chemicals 10th Ed Supp 3 ⁷	Passes Test	As Received	85 mL	2015-08-04
		Reagent Chemicals 10th Ed Supp 3 ⁸	Passes Test	As Received	85 mL	2015-08-04
		Reagent Chemicals 10th Ed Supp 3 ⁹	< 1 ppm	As Received	50 mL	2015-08-04
		Reagent Chemicals 10th Ed Supp 3 ¹⁰	< 1 ppm	As Received	50 mL	2015-08-04
<i>788: Iron Method II</i>						
		Reagent Chemicals 10th Ed Supp 3	< 0.2 ppm	As Received	50.00417 g	2015-08-03
		Reagent Chemicals 10th Ed Supp 3 (matrix spike) ¹¹	≥ 0.2 ppm	As Received	50.0103 g	2015-08-03
<i>c33: Arsenic Color Method I</i>						
		Reagent Chemicals 10th Ed Supp 3	< 0.01 ppm	As Received	300.057 g	2015-07-28

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Reported results are only applicable to the item tested.

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Reagent Chemicals 10th Ed Supp 3 (matrix spike) ¹²	≥ 0.01 ppm	As Received	300.046 g	2015-07-28
<i>j35: Hydrochloric Acid</i>				
Reagent Chemicals 10th Ed Supp 3	37.43 %	As Received	3.46278 g	2015-07-31
Reagent Chemicals 10th Ed Supp 3	37.31 %	As Received	3.71744 g	2015-07-31

1. Matrix spike analyses were performed as part of our internal Quality Control Program. There is no additional charge for matrix spike values.
2. Matrix spike analyses were performed as part of our internal Quality Control Program. There is no additional charge for matrix spike values.
3. Result for bromide test.
4. Result for bromide test matrix spike. Matrix spike analyses were performed as part of our internal Quality Control Program. There is no additional charge for matrix spike values.
5. Result for sulfate test.
6. Result for sulfate test matrix spike. Matrix spike analyses were performed as part of our internal Quality Control Program. There is no additional charge for matrix spike values.
7. Result for sulfite test.
8. Result for sulfite test duplicate.
9. Result for free chlorine test.
10. Result for free chlorine test duplicate.
11. Matrix spike analyses were performed as part of our internal Quality Control Program. There is no additional charge for matrix spike values.
12. Matrix spike analyses were performed as part of our internal Quality Control Program. There is no additional charge for matrix spike values.

For all samples on this report:

13. Duplicate analyses were performed as part of our internal Quality Control Program. There is no additional charge for duplicate values.
14. These analyses were performed in general compliance with the Laboratory sections of Current Good Manufacturing Practices for bulk pharmaceuticals as defined in 21 CFR 210 and 211, with the following exception:
 - The analysis of ammonium was performed by a GLI in-house method which has not been validated for your sample matrix.

Signatures:

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