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DEGRADATION AND IMPURITY PROFILE REPORT: SODIUM CHLORIDE 5M SOLUTION

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1. PURPOSE AND SCOPE:

- 1.1. The impurity profiling of Sodium Chloride 5M solution is intended to identify and possibly quantify impurities found in the product manufactured and purified at BioSpectra, in the Bangor, Pa facility.
 - 1.1.1. In the case where an impurity was detected, a limit was set to the maximum allowable without measurable compromise to predetermined critical quality attributes or toxicity. In the case where a limit could not be set, a procedure will be written and followed to identify if the possible impurity is present or not. (i.e. an identity test, which is qualitative and not quantitative.)
 - 1.1.2. The stages of the Sodium Chloride 5M solution process that were tested were the Raw Materials (Sodium Chloride and Water for Injection), and the Finished Good. One sample from each stage was used for analysis and a table was generated to include all sample results.
 - 1.1.3. The profiling results and data allows BioSpectra to monitor the purity and characteristics of the material through the stages of manufacturing.
 - 1.1.4. The tests that were used to determine the presence of impurities and degradation products were as follows:
 - 1.1.4.1. Appearance and Color
 - 1.1.4.1.1. Water for Injection, NaCl Raw Material, and Finished Good.
 - 1.1.4.2. Assay/Molarity Concentration
 - 1.1.4.2.1. NaCl Raw Material and Finished Good.
 - 1.1.4.3. Elemental Impurities USP <232> and <233>
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 - 1.1.4.5.1. NaCl Raw Material and Finished Good.
 - 1.1.4.6. Microbial Content
 - 1.1.4.6.1. Water for Injection, NaCl Raw Material, Finished Good.
 - 1.1.4.7. Total Organic Carbon
 - 1.1.4.7.1. Finished Good.
 - 1.1.4.8. Finished Good only Trace Metals (Al, As, Cu, Fe, Pb)
 - 1.1.4.8.1. Water for Injection, NaCl Raw Material, and Finished Good
- 1.2. Water for Injection testing was documented in a table for the week the tote(s) were filled for use, as Water for Injection is an approved Raw material for this process.
 - 1.2.1. Totes for water for injection were previously filled for use in this process and were sampled for microbial and endotoxin content.
- 1.3. All results were recorded in the appropriate laboratory documentation. This report includes all relevant data, as well as references to the initial documented results. This report discusses any impurities found in the product and includes a specification for any limits on the impurities found, where applicable.

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2. **RESPONSIBILITIES:**

- 2.1. The Executive Director of Quality Control or designee was responsible for control, implementation, training and maintenance of this procedure as well as for summarizing the results in this Degradation and Impurity Report.
- 2.2. The QC Analysts were responsible for performing the testing stated in the protocol.
- 2.3. The QC Compliance Team was responsible for creating and approving the Degradation and Impurity Profile Report.

3. REFERENCES:

- 3.1. Analytical Method Verification Protocol: Elemental Impurities via ICP-MS
- 3.2. Balance SOP
- 3.3. *Current EP*
- 3.4. *Current JP*
- 3.5. Current USP
- 3.6. ICH Q3D Guideline for Elemental Impurities
- 3.7. Degradation and Impurity Profiling SOP
- 3.8. Degradation and Impurity Profile Protocol: Sodium Chloride
- 3.9. <u>Laboratory Notebooks</u>
- 3.10. NexION 350X ICP-MS SOP
- 3.11. Sodium Chloride 5M Testing Methods
- 3.12. Sodium Chloride Raw Material Testing Methods
- 3.13. <u>USP/EP Water for Injection Testing Methods</u>
- 3.14. Water for Injection Elemental Impurity Profile 2020
- 3.15. Sodium Chloride 5M Elemental Impurity Profile 2020

4. **PROCEDURE:**

4.1. APPEARANCE AND COLOR

4.1.1. Refer to Degradation and Impurity Profile Protocol: Sodium Chloride 5M Solution for testing methods. The results of Appearance and Color are detailed in the table below. All results met requirements.

Lot Number	Stage of Material	Specification	Result
E06DI01-061320		Clear and Colorless	Clear and Colorless
E06DI01-061420	Water for Injection		Clear and Colorless
E06DI01-080920			Clear and Colorless
E06DI01-081020			Clear and Colorless
E06DI01-081920			Clear and Colorless
RI19357019	Raw Material	Monitor	White/Crystals
NC3100-001-0620-PV		Clear Colorless Solution	Clear Colorless Solution
NC3100-002-0820-PV	Finished Goods		Clear Colorless Solution
NC3200-003-0820-PV			Clear Colorless Solution

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4.2. ASSAY/MOLARITY CONCENTRATION

Refer to Degradation and Impurity Profile Protocol: Sodium Chloride 5M Solution for 4.2.1. testing methods. The results of Assay/Molarity concentration are detailed in the table below. All results met requirements.

Lot Number	Stage of Material	Specification	Result
RI19357019	Raw Material	99.0 - 100.5%	100.25%
NC3100-001-0620-PV			5.0M
NC3100-002-0820-PV	Finished Goods	4.9 - 5.1M	5.0M
NC3200-003-0820-PV			5.0M

4.3. <u>ELEMENTAL IMPURITIES, OPTION 1.</u>
4.3.1. Refer to Degradation and Impurity Profile Protocol: Sodium Chloride 5M Solution for testing methods. The results of Elemental Impurities are detailed in the table below.

Lot Number	Stage of Material	Specification	Result
E06DI01-061320			
E06DI01-061420		Meets USP <232>	Refer to
E06DI01-080920	Water for Injection	<233> Option 1	DCN: 21-001716
E06DI01-081020		Requirements	DCN. 21-001/10
E06DI01-081920			
		Meets USP <232>	
RI19357019	Raw Material	<233> Option 1	
		Requirements	Refer to
NC3100-001-0620-PV		Meets USP <232>	DCN: 21-001717
NC3100-002-0820-PV	Finished Goods	<233> Option 1	
NC3200-003-0820-PV		Requirements	

4.4. ENDOTOXINS

4.4.1. Refer to Degradation and Impurity Profile Protocol: Sodium Chloride 5M Solution for testing methods. The results of Endotoxin analysis are detailed in the table below.

Lot Number	Stage of Material	Specification	Result
E06DI01-061320			0.085EU/mL
E06DI01-061420	Water for Injection	≤0.25 EU/mL	0.127EU/mL
E06DI01-080920			1.37 EU/mL
E06DI01-081020			0.530 EU/mL
E06DI01-081920			3.05 EU/mL
RI19357019	Raw Material	<5 EU/g	<1 EU/g
NC3100-001-0620-PV			<0.3 EU/mL
NC3100-002-0820-PV	Finished Goods	≤2.5 EU/mL	<0.3 EU/mL
NC3200-003-0820-PV			<0.3 EU/mL

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4.5. <u>IDENTIFICATION TEST: Sodium</u>
4.5.1. Refer to Degradation and Impurity Profile Protocol: Sodium Chloride 5M Solution for testing methods. The results of Identification Sodium are detailed in the table below. All results met requirements.

Lot Number	Stage of Material	Specification	Result
RI19357019	Raw Material	Meets Requirements	Meets Requirements
NC3100-001-0620-PV			Meets Requirements
NC3100-002-0820-PV	Finished Goods	Meet Requirements	Meets Requirements
NC3200-003-0820-PV		-	Meets Requirements

4.6. **IDENTIFICATION TEST: Chloride**

4.6.1. Refer to Degradation and Impurity Profile Protocol: Sodium Chloride 5M Solution for testing methods. The results of Identification Chloride are detailed in the table below. All results met requirements.

Lot Number	er Stage of Material Specification		Result	
RI19357019	Raw Material	Meets Requirements	Meets Requirements	
NC3100-001-0620-PV			Meets Requirements	
NC3100-002-0820-PV	Finished Goods	Meet Requirements	Meets Requirements	
NC3200-003-0820-PV			Meets Requirements	

4.7. MICROBIAL CONTENT

ROBIAL CONTENT: TAMC/TYMC was performed by Mary Paul Laboratories. The results are detailed in the 4.7.1. table below. All results met requirements.

Lot Number	Stage of Material	Specification	Results and Identifications, where applicable		
E06DI01-061320			<10 CFU/g; <10 CFU/g		
E06DI01-061420	Water for Injection	Monitor for TAMC/TYMC	4400 CFU/g; <10 CFU/g Identification- <i>Ralstonia pickettii</i>		
E06DI01-080920			70 CFU/mL; < 10 CFU/g Identification- Sphingomonas sp; Ralstonia pickettii		
E06DI01-081020			40 CFU/mL; < 10 CFU/g Identification- Sphingomonas sp; Ralstonia pickettii		
E06DI01-081920			>2000 CFU/100 mL Identification- Staphylococcus sp; Ralstonia pickettii		
RI19357019	Raw Material	Monitor for TAMC/TYMC	<10 CFU/g; <10 CFU/g		
NC3100-001- 0620-PV			<10 CFU/g; <10 CFU/g		
NC3100-002- 0820-PV	Finished Goods	TAMC: ≤50 CFU/g TYMC: ≤150 CFU/g	<10 CFU/g; <10 CFU/g		
NC3200-003- 0820-PV			<10 CFU/g; <10 CFU/g		

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4.8. TOTAL ORGANIC CARBON

: Refer to Degradation and Impurity Profile Protocol: Sodium Chloride 5M Solution for 4.8.1. testing methods. The results of Total Organic Carbon are detailed in the table below. All results met the requirements.

Lot Number	Stage of Material	Specification	Result
NC3100-001-0620-PV	Finished Goods	<0.03% Organic Carbon	<0.03% Organic Carbon
NC3100-002-0820-PV			<0.03% Organic Carbon
NC3200-003-0820-PV		Carbon	<0.03% Organic Carbon

4.9. TRACE METALS ANALYSIS

4.9.1.1. Refer to Degradation and Impurity Profile Protocol: Sodium Chloride 5M Solution for testing methods. The results of Trace Metal Analysis are detailed in the table below.

Lot Number Stage of Material			Specif	ication		Result			
		Al	As	Fe	Pb	Al	As	Fe	Pb
Raw Material									
		Monitor			Refer to DCN: 21-00171				
							1716		
r	Stage of	Materia	al	Metal		Specification		r	esult
	Raw Material			Arsenic				<	lppm
)				Iron		Mor			2ppm
									2ppm
				NMT 2ppm			2ppm		
									2ppm
20-PV	Finished Goods					NMT 2 ppm			2ppm
						FF			2ppm
					2ppm				
				-		-			2ppm
20-PV	Finished Goods		. —			NMT 2 ppm			2ppm
				A A		* *			2ppm
		Finished Goods							2ppm 2ppm
				Copper		NMT 2 ppm			2ppm 2ppm
20-PV	Finishee								2ppm 2ppm
									2ppm 2ppm
	Stage of Raw M r 0-PV 0-PV	Stage of Material Raw Material r Stage of Raw M 0 Raw M 0 Finished 0 Finished 0 Finished	Al Raw Material r Stage of Material 0 Raw Material 0 Finished Goods 0-PV Finished Goods	Stage of Material Specif Al As Raw Material Mon r Stage of Material Mon r Stage of Material Mon 0 Raw Material Mon 0 PV Finished Goods Mon	SpecificationStage of MaterialAlAsFeRaw MaterialMonitorrStage of MaterialMetalrStage of MaterialMetalRaw MaterialArsenicRaw MaterialIronCopperArsenic0-PVFinished Goods0-PVFinished Goods0-PVFinished Goods0-PVFinished Goods0-PVFinished Goods0-PVFinished Goods0-PVFinished Goods0-PVFinished Goods	SpecificationAlAsFePbAlAsFePbMonitorRaw MaterialMonitorrStage of MaterialMetalArsenicIronRaw MaterialArsenic0Raw MaterialArsenic0Finished GoodsIron0Finished GoodsIron0Finished GoodsIron0Finished GoodsIron0Finished GoodsIron0Finished GoodsIron0Finished GoodsIron0Finished GoodsIron0Finished GoodsIron0Finished GoodsIcead0Finished GoodsCopper0Finished 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4.10. ROUTINE WATER FOR INJECTION ANALYSES

4.10.1. Refer to the USP/EP Water for Injection Testing Methods for testing methods. Routine Water for Injection testing was documented in the table for the week the tote(s) were filled for use, as Water for Injection was used for this process.

Specification	E06DI01- 061020	E06DI01- 061720	E06DI01- 081220	E06DI01- 081920
1.1 μS/cm @	0.69µS/cm @	0.58µS/cm @	0.48µS/cm @	0.52 μS/cm @
20°C	23.1°C	25.0°C	25.4°C	25.0°C
1.3 μS/cm @	0.69µS/cm @	0.58µS/cm @	0.48µS/cm @	0.48 µS/cm @
25.0°C	23.1°C	25.0°C	25.4°C	24.8°C
\leq 0.2 ppm	< 0.2 ppm	< 0.2 ppm	< 0.2 ppm	< 0.2 ppm
\leq 500 ppb	1.62 ppb	2.68 ppb	0.65 ppb	0.87 ppb
\leq 0.25 EU/mL	<0.0100 EU/mL	<0.0100 EU/mL	<0.0100 EU/mL	<0.0100 EU/mL
< 10 CEU/100mI	< 1 CFU/100mL	< 1 CFU/100mL	< 1 CFU/100mL	< 1 CFU/100mL
	$ \begin{array}{r} 1.1 \ \mu \text{S/cm} @ \\ 20^{\circ}\text{C} \\ 1.3 \ \mu \text{S/cm} @ \\ 25.0^{\circ}\text{C} \\ \leq 0.2 \ \text{ppm} \\ \leq 500 \ \text{ppb} \\ \leq 0.25 \ \text{EU/mL} \\ \end{array} $	Specification061020 $1.1 \ \mu\text{S/cm}$ $0.69\ \mu\text{S/cm}$ 20°C 23.1°C $1.3 \ \mu\text{S/cm}$ $0.69\ \mu\text{S/cm}$ 25.0°C 23.1°C $\leq 0.2 \ ppm$ $< 0.2 \ ppm$ $\leq 500 \ ppb$ $1.62 \ ppb$ $\leq 0.25 \ \text{EU/mL}$ $< 0.0100 \ \text{EU/mL}$ < 10 $< 1 \ \text{CFU}/100 \ \text{mJ}$	Specification061020061720 $1.1 \ \mu\text{S/cm}$ (@) $0.69\ \mu\text{S/cm}$ (@) $0.58\ \mu\text{S/cm}$ (@) 20°C 23.1°C 25.0°C $1.3 \ \mu\text{S/cm}$ (@) $0.69\ \mu\text{S/cm}$ (@) $0.58\ \mu\text{S/cm}$ (@) 25.0°C 23.1°C 25.0°C $\leq 0.2 \ ppm$ $< 0.2 \ ppm$ $< 0.2 \ ppm$ $\leq 500 \ ppb$ $1.62 \ ppb$ $2.68 \ ppb$ $\leq 0.25 \ EU/mL$ $< 0.0100 \ EU/mL$ $< 0.0100 \ EU/mL$ < 10 $< 1 \ CEU/100 \ pmL$ $< 1 \ CEU/100 \ pmL$	Specification061020061720081220 $1.1 \ \mu\text{S/cm}$ $0.69\ \mu\text{S/cm}$ $0.58\ \mu\text{S/cm}$ $0.48\ \mu\text{S/cm}$ 20°C 23.1°C 25.0°C 25.4°C $1.3 \ \mu\text{S/cm}$ $0.69\ \mu\text{S/cm}$ $0.58\ \mu\text{S/cm}$ $0.48\ \mu\text{S/cm}$ 25.0°C 23.1°C 25.0°C 25.4°C 25.0°C 23.1°C 25.0°C 25.4°C $\leq 0.2 \ ppm$ $< 0.2 \ ppm$ $< 0.2 \ ppm$ $< 0.2 \ ppm$ $\leq 500 \ ppb$ $1.62 \ ppb$ $2.68 \ ppb$ $0.65 \ ppb$ $\leq 0.25 \ EU/mL$ $< 0.0100 \ EU/mL$ $< 0.0100 \ EU/mL$ $< 0.0100 \ EU/mL$ < 10 $\leq 1 \ CEU/100 \ pmL$ $< 1 \ CEU/100 \ pmL$

5. CONCLUSION:

5.1. In conclusion, all samples from all stages of the process met specifications as dictated in the Degradation and Impurity Profile Protocol: 5M Sodium Chloride, with the exception of the three previously filled water tote samples: E06DI01-080920, E06DI01-081020 and E06DI01-081920. These specific water tote samples produced slightly elevated endotoxin results, according to the USP/EP Water for Injection specifications of ≤0.25EU/mL, however the water tote samples met the Finished good specification of ≤2.5EU/mL.

Full water testing for the E06 sample port is included in this report for the week the totes were filled for use and met USP/EP Water for Injection specifications. Endotoxin was removed through the filtration process and all finished goods met specification.

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