



MANUFACTURING BATCH RECORD

Confidential

Batch Record Number:

M4097-01A

Issued By/ Date:

DC OCT 20 2020

M4097-01A



MANUFACTURING BATCH RECORD

Solution Preparation for Naloxone Swabs

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I. Preliminary Batch Record Approval:

This batch record was reviewed prior to its execution and was found to be acceptable. The signatures below indicate approval of this batch record as adequate, complete, and correct.

Emerson Resources, Inc. Approval

Approver	Signature	Date
Author		10/6/2020
Technical Reviewer		06 OCT 2020
Quality Assurance Representative		10/6/20

Pocket Naloxone Corp. Approval

Approver	Signature	Printed Name	Title	Date
Representative		attached	10/12/2020	
Representative				



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Emerson Resources, Inc. Approval

Approver	Signature	Date
Author		10/6/2020
Technical Reviewer		06 OCT 2020
Quality Assurance Representative		10/6/20

Pocket Naloxone Corp. Approval

Approver	Signature	Printed Name	Title	Date
Representative	DocuSigned by: Alex Schwarz 25DE1585A70442B...	Alex Schwarz	VP, CMC	10/20/2020
Representative	DocuSigned by: Ashanthi Mathai E70636F912E9449...	Ashanthi Mathai	CEO	10/20/2020



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II. Operator / Reviewer Signature Log:

By signing the log, all operators are verifying that they are trained on all relevant procedures and current versions of SOPs.

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III. Materials / Formulation:

Step	Description	Done By	Checked By																								
1	The following represents the formulation for preparing approximately 1000g of 60 mg/mL Naloxone HCl solution.																										
1N Sodium Hydroxide Solution Formulation:																											
<table border="1"> <thead> <tr> <th>Component</th><th>%w/w</th><th>g/batch</th></tr> </thead> <tbody> <tr> <td>Sodium Hydroxide Pellets</td><td>4.0</td><td>20.0</td></tr> <tr> <td>Sterile Water</td><td>96.0</td><td>480.0</td></tr> <tr> <td>Total</td><td>100.0</td><td>500.0</td></tr> </tbody> </table>				Component	%w/w	g/batch	Sodium Hydroxide Pellets	4.0	20.0	Sterile Water	96.0	480.0	Total	100.0	500.0												
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1N HCl Solution Formulation:																											
<table border="1"> <thead> <tr> <th>Component</th><th>%w/w</th><th>g/batch</th></tr> </thead> <tbody> <tr> <td>12N HCl</td><td>9.83</td><td>49.17</td></tr> <tr> <td>Sterile Water</td><td>90.17</td><td>450.83</td></tr> <tr> <td>Total</td><td>100.00</td><td>500.0</td></tr> </tbody> </table>				Component	%w/w	g/batch	12N HCl	9.83	49.17	Sterile Water	90.17	450.83	Total	100.00	500.0												
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60 mg/mL Naloxone HCl Solution Formulation:																											
<table border="1"> <thead> <tr> <th>Component</th><th>% w/v</th><th>g/batch</th></tr> </thead> <tbody> <tr> <td>Naloxone HCl Dihydrate</td><td>6.569 ^{1,2}</td><td>65.69</td></tr> <tr> <td>Citric Acid Anhydrous</td><td>0.192</td><td>1.92</td></tr> <tr> <td>Benzalkonium Chloride (50% w/w solution)</td><td>0.203</td><td>2.03</td></tr> <tr> <td>Disodium EDTA Dihydrate</td><td>0.055</td><td>0.55</td></tr> <tr> <td>Sodium Chloride</td><td>0.150</td><td>1.50</td></tr> <tr> <td>Sterile Water</td><td>QS</td><td>QS</td></tr> <tr> <td>Total</td><td>100.000</td><td>1,000.00</td></tr> </tbody> </table>				Component	% w/v	g/batch	Naloxone HCl Dihydrate	6.569 ^{1,2}	65.69	Citric Acid Anhydrous	0.192	1.92	Benzalkonium Chloride (50% w/w solution)	0.203	2.03	Disodium EDTA Dihydrate	0.055	0.55	Sodium Chloride	0.150	1.50	Sterile Water	QS	QS	Total	100.000	1,000.00
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Sterile Water	QS	QS																									
Total	100.000	1,000.00																									

¹ Equivalent to 6.0 % w/v Naloxone HCl.

² From COA, the calculated purity = HPLC Assay – Inorganic Impurities – Water content = 100.6 – 0.1 – 9.1 = 91.4 %.



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Step	Description						Done By	Checked By	
2	Raw Material List:							<i>TB</i> <i>RF</i>	
	Component	Manufacturer	Receiving Number	Lot Number	Expiration/Retest Date	Net Quantity (from label)			
	A Naloxone HCl Dihydrate	Mallinckrodt	R200714-01A	2003000177	2/28/2025	To be dispensed			
	B Citric Acid Anhydrous	ADM	R200807-01A	S006054	6/5/2023				
	C Benzalkonium Chloride (50% w/w solution)	Sigma Aldrich	R200813-01A	BCBZ4386	9/30/2021				
	D Disodium EDTA Dihydrate ²	EMD Millipore	R180427-02	E300000683	11/30/2022				
	E Sodium Chloride	Avantor	R200203-02A	0000248072	11/5/2024				
	F Sodium Hydroxide Pellets ¹	Avantor	R190627-01	0000231642	10/24/2021				
	G Hydrochloric Acid ¹	Avantor	R160808-02	0000144734	4/24/2021				
	H Sterile Water	HyClone	R200721-01A	AF29424794	3/31/2023	3	L		
<p>¹ Required for preparation of pH adjustment solutions. ² Equivalent to EDTA diSodium Dihydrate on the raw material dispensing label.</p>									
3	QA Material Release:								
	Components listed in Step 2 are acceptable for use per SOP R-07 (✓) (<u>✓</u>). All containers are visually clean and free of foreign material (✓) (<u>✓</u>). Quantities issued in Step 2 fulfill the required quantities outlined in Step 1 (✓) (<u>✓</u>).								
	QA Release (Initials / Date): <u>DC 10/21/20</u>								



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IV. Room Release and Setup:

Step	Description	Done By	Checked By
4	<p>Room and Equipment Cleaning: Room Number: <u>ZTT 218</u> Cleaning Batch Record(s): <u>C4097-12</u> Room and equipment were previously cleaned, swabbed, and released.</p>	<u>TK</u>	<u>POF</u>
5	<p>Proper gowning for dispensing and handling of this material is as follows: NOTE: Please confirm all hair is contained inside hair cover and beard cover (if applicable).</p> <ul style="list-style-type: none">A. Safety glasses/safety gogglesB. Hair coverC. Beard cover (if applicable)D. Disposable gowningE. Disposable sleeves (as needed)F. Shoe coversG. Non-latex glovesH. PAPR required for handling Naloxone HCl Dihydrate in dry form		

① EE TB 11/6/2020 OC 11/6/20



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Step	Description					Done By	Checked By
6	Equipment List:						
	Name	ID	PM Due Date	Cal. Due Date	SOP		
	Chart Recorder	LS81		2/2021	E-23		
	Top Loading Balance (≥ 3,000 g, 2 g minimum Weight)	A145	3① 11/30/2020	11/30/2020	Q-15		
	Analytical Balance (20 mg minimum Weight)	A301	11/30/2020	11/30/2020	Q-15		
	Peristaltic Pump	L579			N/A		
	Magnetic Stir Plate	A340			N/A		
	Magnetic Stir Plate	L116			N/A		
	Timer	A388		7/13/2021	N/A		
	pH Meter with Probe	A185		4/30/2021	A-25		
	Nalgene Beaker (600 mL) (3)	For Project 4097			N/A		
	HDPE Container/Lid (2 gal) (2)	For Project 4097			N/A		
	Stainless Steel Container (~1L)	For Project 4097			N/A		
	Glass Media Bottle with Cap (1L)	For Project 4097			N/A		
	Stir bars (3)	For Project 4097			N/A		
	FisherBrand Elite Pipette, 20 – 200 µL	For Project 4097		2/2021	N/A		
	FisherBrand Elite Pipette, 100 – 1000 µL	For Project 4097		7/12/2021	N/A		
	Pipette Tips (1 mL)	For Project 4097			N/A		
	Pipette Tips (200 µL)	For Project 4097			N/A		
	Optiscale 47 Capsule Filters (Polysep II, 1.0/0.2 µm, Cat# SGW3A47HH3)	For Project 4097			N/A		

①EE TB 10/21/2020 10/21/2020 PTF 10/21/20

TB 10/21/2020 DC 11/6/20



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Step	Description				Done By	Checked By
8	In-Process Cleaning: The following may be used for cleaning throughout the process.	Material	Manufacturer/Supplier	Lot Number	Expiration Date	
	99% Isopropyl Alcohol (IPA)	<i>ExxonMobil / Univer Solutions</i>		<i>MV20878218</i>	<i>4/20/2021</i>	<i>TJS</i>
	70% Saturated IPA Wipes	Berkshire		<i>2004000132</i>	<i>6/26/2021</i>	<i>PJF</i>
	Lint-Free Cloths	Berkshire		<i>0830181</i>	<i>5/1/2025</i>	
			<i>DMS 24 Oct 2020</i>			
9	QA Room and Equipment Release: The release of the room and equipment has been executed and documented in appropriate logbook(s) (✓) (<u>✓</u>). Expiry dates for cleaning materials and equipment have been verified for continued use (✓) (<u>✓</u>). QA's visual inspection of the room and equipment has been performed and documented in appropriate logbook(s) (✓) (<u>✓</u>). QA Release (Initials / Date): <u>DC 10/21/20</u>					



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Step	Description	Done By	Checked By										
10	<p>Set up the temperature/% relative humidity chart recorder. Record the current date, time, room number, batch record number, ID number, and initials on the chart recorder paper. Ensure both markers are recording and that the chart recorder is set to record temperature in °C.</p> <table border="1"><tr><td>Chart Recorder ID</td><td><u>L581</u></td></tr><tr><td>Chart Paper Type (circle one)</td><td><input checked="" type="radio"/> Daily / Weekly / Monthly</td></tr><tr><td>Chart Recorder Setting (circle one)</td><td><input checked="" type="radio"/> Daily / Weekly / Monthly</td></tr><tr><td>Temperature Setting (circle one)</td><td><input checked="" type="radio"/> °C <input type="radio"/> °F</td></tr><tr><td>Both pens are recording (✓)</td><td>✓</td></tr></table>	Chart Recorder ID	<u>L581</u>	Chart Paper Type (circle one)	<input checked="" type="radio"/> Daily / Weekly / Monthly	Chart Recorder Setting (circle one)	<input checked="" type="radio"/> Daily / Weekly / Monthly	Temperature Setting (circle one)	<input checked="" type="radio"/> °C <input type="radio"/> °F	Both pens are recording (✓)	✓	<i>JB</i>	<i>PJF</i>
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V. Dispensing Procedure

Step	Description	Reviewed and Understood
12	<p>Dispensing Instructions:</p> <ol style="list-style-type: none"> Only one raw material may be brought into the room at a time. Additional raw material handling requirements must be followed, as defined in SOP R-07. <u>Note:</u> Cardboard and/or fiber containers should not be placed on the working surface. Attach a label to the poly bag or container, and record the tare weight. Tare the poly bag or container on the balance. <u>Note:</u> An intermediate container may be used when appropriate, which does not require a label. Dispense the required quantity of the raw material into the poly bag or container. Record the net quantity. Ensure that the label contains the following: Batch Record#: M4097-01A Material: Receiving #: Lot #: Tare Weight: Net Quantity: Expiration Date: Initials/Date: <u>Note:</u> Additional information can be placed on label where necessary. Affix a duplicate label to the in-process section of the batch record. Update the dispensing label on the raw material container. (Note: If multiple samples from the same raw material are being dispensed, the raw material dispensing label may be updated with a lump sum at the completion of sampling.) 	<p>All operators have reviewed and understood dispensing instructions.</p> <p><i>TB 10/21/2020</i> <i>RSF 10/21/2020</i></p>



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Dispensing Worksheet (for Step 12):

Sample Type	Instructions
For Solution Prep	Dispense Raw Material into a vial with cap
Retain Sample	Include expiration 2 years from current date

	Raw Material	Balance ID	Target Quantity	Acceptable Range		Dispensed Quantity	Recorded By	Checked By	Label Prepared & Checked (✓)	Duplicate Label Prepared & Checked (✓)	Dispensing Label Updated (✓)	Done By	Checked By
A	Citric Acid Anhydrous (For Solution Prep)	<i>A301</i>	1.92	g 1.86 – 1.98		<i>1.9582</i> g	<i>TB</i>	<i>PJF</i>	✓	✓		<i>TB</i>	<i>PJF</i>
B	Citric Acid Anhydrous (Retain Sample)	<i>A145</i>	20.0	g 18.0 – 22.0		<i>19.96</i> g	<i>TB</i>	<i>PJF</i>	✓	✓		<i>TB</i>	<i>PJF</i>
C	Total Dispensed					<i>21.9182</i> g	<i>TB</i>	<i>PJF</i>			✓	<i>TB</i>	<i>PJF</i>
D	Disodium EDTA Dihydrate (For Solution Prep)	<i>A301</i>	0.55	g 0.52 – 0.58		<i>0.5758</i> g	<i>TB</i>	<i>PJF</i>	✓	✓		<i>TB</i>	<i>PJF</i>
E	Disodium EDTA Dihydrate (Retain Sample)	<i>A145</i>	20.0	g 18.0 – 22.0		<i>19.38</i> g	<i>TB</i>	<i>PJF</i>	✓	✓		<i>TB</i>	<i>PJF</i>
F	Total Dispensed					<i>19.9558</i> g	<i>TB</i>	<i>PJF</i>			✓	<i>TB</i>	<i>PJF</i>
G	Sodium Chloride (For Solution Prep)	<i>A301</i>	1.50	g 1.45 – 1.55		<i>1.5334</i> g	<i>TB</i>	<i>PJF</i>	✓	✓		<i>TB</i>	<i>PJF</i>
H	Sodium Chloride (Retain Sample)	<i>A145</i>	20.0	g 18.0 – 22.0		<i>20.75</i> g	<i>TB</i>	<i>PJF</i>	✓	✓		<i>TB</i>	<i>PJF</i>
I	Total Dispensed					<i>22.2834</i> g	<i>TB</i>	<i>PJF</i>			✓	<i>TB</i>	<i>PJF</i>
J	Sodium Hydroxide Pellets (For pH solution)	<i>A145</i>	20.0	g 19.5 – 20.5		<i>20.14</i> g	<i>TB</i>	<i>PJF</i>	✓	✓		<i>TB</i>	<i>PJF</i>
K	Sodium Hydroxide Pellets (Retain Sample)	<i>A145</i>	20.0	g 18.0 – 22.0		<i>19.90</i> g	<i>TB</i>	<i>PJF</i>	✓	✓		<i>TB</i>	<i>PJF</i>
L	Total Dispensed					<i>40.04</i> g	<i>TB</i>	<i>PJF</i>			✓	<i>TB</i>	<i>PJF</i>



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Dispensing Worksheet continued (for Step 12):

Sample Type	Instructions	
Retain Sample	Include expiration 2 years from current date	

	Raw Material	Balance ID	Target Quantity		Acceptable Range		Dispensed Quantity		Recorded By	Checked By	Label Prepared & Checked (✓)	Duplicate Label Prepared & Checked (✓)	Dispensing Label Updated (✓)	Done By	Checked By
M	Hydrochloric Acid (For pH Solution) ¹	A145	49.17	g	49.00 – 49.34	g	49.18	g	TB	PJF	✓	✓		TB	PJF
N	Hydrochloric Acid (Retain Sample) ¹	A145	20.0	g	18.0 – 22.0	g	19.90	g	TB	PJF	✓	✓		TB	PJF
O			Total Dispensed				69.08	g	TB	PJF			✓	TB	PJF
P	Benzalkonium Chloride (50% w/w solution) (Retain Sample) ¹	A145	20.0	g	18.0 – 22.0	g	20.07	g	TB	PJF	✓	✓	✓	TB	PJF

¹ Dispense raw material into an appropriate glass container.



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13	Record the end time, room Magnehelic pressure reading, and the current temperature and relative humidity in Step 11.	<u>POF</u>	<u>TK</u>
14	QA Final In-Process Check: All steps are completed and in-process specifications met (✓) (<u>✓</u>). Content on all labels has been verified (✓) (<u>✓</u>). All quantities dispensed are within specifications (✓) (<u>✓</u>). QA Initials / Date: <u>DC 10/21/20</u>		



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VI. Solution Preparation Procedure:

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15	<p>Prepare a labeled Nalgene beaker (600 mL) for 1N NaOH Solution preparation. Add a stir bar to the beaker. Obtain the tare weight of the empty beaker with stir bar. Ensure that the label contains the following:</p> <table border="1"> <tr> <td>Batch Record#: M4097-01A</td> <td>Tare weight (with stir bar)</td> <td><u>88.41</u></td> <td>grams</td> </tr> <tr> <td>Material: 1N NaOH Solution</td> <td>Balance Minimum Weight</td> <td><u>2g</u></td> <td></td> </tr> <tr> <td>Receiving Number: N/A</td> <td>Balance ID</td> <td><u>A145</u></td> <td></td> </tr> <tr> <td>Lot Number: N/A</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Tare Weight:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Net Quantity: N/A</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Initials/Date:</td> <td></td> <td></td> <td></td> </tr> </table> <p>Update the beaker label with tare weight (✓) (<u>✓</u>). Update duplicate label to the in-process section of the batch record (✓) (<u>✓</u>).</p>	Batch Record#: M4097-01A	Tare weight (with stir bar)	<u>88.41</u>	grams	Material: 1N NaOH Solution	Balance Minimum Weight	<u>2g</u>		Receiving Number: N/A	Balance ID	<u>A145</u>		Lot Number: N/A				Tare Weight:				Net Quantity: N/A				Initials/Date:				<u>TB</u>	<u>PJF</u>
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Tare Weight:																															
Net Quantity: N/A																															
Initials/Date:																															
16	<p>Tare the beaker labeled 1N NaOH Solution and dispense the required quantity of Sterile Water into it.</p> <table border="1"> <tr> <td>Required Quantity</td> <td><u>480.0</u> (<u>475.0 – 485.0</u>)</td> <td>grams</td> </tr> <tr> <td>Net Quantity</td> <td><u>481.02</u></td> <td>grams</td> </tr> <tr> <td>Balance Minimum Weight</td> <td><u>2g</u></td> <td></td> </tr> <tr> <td>Balance ID</td> <td><u>A145</u></td> <td></td> </tr> </table> <p>Place the beaker on the magnetic stir plate and begin mixing to form a gentle vortex (✓) (<u>✓</u>).</p>	Required Quantity	<u>480.0</u> (<u>475.0 – 485.0</u>)	grams	Net Quantity	<u>481.02</u>	grams	Balance Minimum Weight	<u>2g</u>		Balance ID	<u>A145</u>		<u>TB</u>	<u>PJF</u>																
Required Quantity	<u>480.0</u> (<u>475.0 – 485.0</u>)	grams																													
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Initials: TB

Step	Description	Done By	Checked By												
17	<p>Slowly add the Sodium Hydroxide Pellets (For pH solution) to the vortex. Adjust stirring speed to maintain a vortex during and after pellet addition. Continue mixing until the pellets are fully dissolved and a clear solution has formed.</p> <p>Timer Started (✓) (<u>✓</u>).</p> <table border="1"> <tr> <td>Mix Time</td> <td>3:06</td> <td>min:sec</td> </tr> </table> <p>After mixing is complete, cover the 1N NaOH Solution with aluminum foil (✓) (<u>✓</u>).</p>	Mix Time	3:06	min:sec	TB	PSF									
Mix Time	3:06	min:sec													
18	<p>Prepare a labeled Nalgene beaker (600 mL) for 1N HCl Solution preparation. Add a stir bar to the beaker. Obtain the tare weight of the empty beaker with stir bar. Ensure that the label contains the following:</p> <table> <tr> <td>Batch Record#: M4097-01A Material: 1N HCl Solution Receiving Number: N/A Lot Number: N/A Tare Weight: Net Quantity: N/A Initials/Date:</td> <td>Tare weight (with stir bar)</td> <td>88.57</td> <td>grams</td> </tr> <tr> <td></td> <td>Balance Minimum Weight</td> <td>2</td> <td></td> </tr> <tr> <td></td> <td>Balance ID</td> <td>A145</td> <td></td> </tr> </table> <p>Update the beaker label with tare weight (✓) (<u>✓</u>). Update duplicate label to the in-process section of the batch record (✓) (<u>✓</u>).</p>	Batch Record#: M4097-01A Material: 1N HCl Solution Receiving Number: N/A Lot Number: N/A Tare Weight: Net Quantity: N/A Initials/Date:	Tare weight (with stir bar)	88.57	grams		Balance Minimum Weight	2			Balance ID	A145		TB	PSF
Batch Record#: M4097-01A Material: 1N HCl Solution Receiving Number: N/A Lot Number: N/A Tare Weight: Net Quantity: N/A Initials/Date:	Tare weight (with stir bar)	88.57	grams												
	Balance Minimum Weight	2													
	Balance ID	A145													
19	<p>Tare the beaker labeled 1N HCl Solution and dispense the required quantity of Sterile Water into it.</p> <table border="1"> <tr> <td>Required Quantity</td> <td>450.8 (445.8 – 455.8)</td> <td>grams</td> </tr> <tr> <td>Net Quantity</td> <td>450.82</td> <td>grams</td> </tr> <tr> <td>Balance Minimum Weight</td> <td>2</td> <td></td> </tr> <tr> <td>Balance ID</td> <td>A145</td> <td></td> </tr> </table> <p>Place the beaker on the magnetic stir plate and begin mixing to form a gentle vortex (✓) (<u>✓</u>).</p>	Required Quantity	450.8 (445.8 – 455.8)	grams	Net Quantity	450.82	grams	Balance Minimum Weight	2		Balance ID	A145		TB	PSF
Required Quantity	450.8 (445.8 – 455.8)	grams													
Net Quantity	450.82	grams													
Balance Minimum Weight	2														
Balance ID	A145														



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Step	Description	Done By	Checked By												
20	<p>Slowly and carefully add the Hydrochloric Acid (For pH solution) to the vortex. Adjust stirring speed to maintain a vortex during and after solution addition. Continue mixing until a clear solution has formed.</p> <p>Timer Started (✓) (<u>✓</u>).</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Mix Time</td> <td>2:00</td> <td>min:sec</td> </tr> </table> <p>After mixing is complete, cover the 1N HCl Solution with aluminum foil (✓) (<u>✓</u>).</p>	Mix Time	2:00	min:sec	<u>TB</u>	<u>POF</u>									
Mix Time	2:00	min:sec													
21	<p>Prepare a labeled stainless steel container (~ 1L) for Unfiltered Naloxone Solution preparation. Add a stir bar to the container. Obtain the tare weight of the empty container with stir bar. Ensure that the label contains the following:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Batch Record#: M4097-01A Material: Unfiltered Naloxone Solution Receiving Number: N/A Lot Number: N/A Tare Weight: Net Quantity: Initials/Date:</td> <td>Tare weight (with stir bar)</td> <td><u>318.40</u></td> <td>grams</td> </tr> <tr> <td></td> <td>Balance Minimum Weight</td> <td><u>29</u></td> <td></td> </tr> <tr> <td></td> <td>Balance ID</td> <td><u>A145</u></td> <td></td> </tr> </table> <p>Update the container label with tare weight (✓) (<u>✓</u>). Update duplicate label to the in-process section of the batch record (✓) (<u>✓</u>).</p>	Batch Record#: M4097-01A Material: Unfiltered Naloxone Solution Receiving Number: N/A Lot Number: N/A Tare Weight: Net Quantity: Initials/Date:	Tare weight (with stir bar)	<u>318.40</u>	grams		Balance Minimum Weight	<u>29</u>			Balance ID	<u>A145</u>		<u>TB</u>	<u>POF</u>
Batch Record#: M4097-01A Material: Unfiltered Naloxone Solution Receiving Number: N/A Lot Number: N/A Tare Weight: Net Quantity: Initials/Date:	Tare weight (with stir bar)	<u>318.40</u>	grams												
	Balance Minimum Weight	<u>29</u>													
	Balance ID	<u>A145</u>													



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Step	Description	Done By	Checked By															
22	<p>Place the Unfiltered Naloxone Solution container on a balance. Zero the balance. Using a FisherBrand Elite Pipette, 100 – 1000 µL and a 1 mL fresh tip, slowly add the required quantity of Benzalkonium Chloride (50% w/w solution) to the container.</p> <table border="1"> <tr> <td>Target Quantity</td> <td>2.03</td> <td>grams</td> </tr> <tr> <td>Required Quantity</td> <td>1.98 – 2.08</td> <td>grams</td> </tr> <tr> <td>Net Quantity Added</td> <td><u>2.0480</u></td> <td>grams</td> </tr> <tr> <td>Balance Minimum Weight</td> <td><u>20 mg</u></td> <td></td> </tr> <tr> <td>Balance ID</td> <td><u>A301</u></td> <td></td> </tr> </table> <p>Update the dispensing label on the Benzalkonium Chloride (50% w/w solution) raw material container (✓) (<u> </u>). Remove the Benzalkonium Chloride (50% w/w solution) from the room (✓) (<u> </u>).</p>	Target Quantity	2.03	grams	Required Quantity	1.98 – 2.08	grams	Net Quantity Added	<u>2.0480</u>	grams	Balance Minimum Weight	<u>20 mg</u>		Balance ID	<u>A301</u>		<i>TR</i>	<i>RJT</i>
Target Quantity	2.03	grams																
Required Quantity	1.98 – 2.08	grams																
Net Quantity Added	<u>2.0480</u>	grams																
Balance Minimum Weight	<u>20 mg</u>																	
Balance ID	<u>A301</u>																	
23	<p>Zero the balance with the labeled Unfiltered Naloxone Solution and dispense the required quantity of Sterile Water into it.</p> <table border="1"> <tr> <td>Required Quantity</td> <td>740 - 760</td> <td>grams</td> </tr> <tr> <td>Net Quantity</td> <td><u>751.71</u></td> <td>grams</td> </tr> <tr> <td>Balance Minimum Weight</td> <td><u>2g</u></td> <td></td> </tr> <tr> <td>Balance ID</td> <td><u>A145</u></td> <td></td> </tr> </table> <p>Place the container on the magnetic stir plate and begin stirring to form a gentle vortex (✓) (<u> </u>).</p>	Required Quantity	740 - 760	grams	Net Quantity	<u>751.71</u>	grams	Balance Minimum Weight	<u>2g</u>		Balance ID	<u>A145</u>		<i>TR</i>	<i>POT</i>			
Required Quantity	740 - 760	grams																
Net Quantity	<u>751.71</u>	grams																
Balance Minimum Weight	<u>2g</u>																	
Balance ID	<u>A145</u>																	



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Step	Description			Done By	Checked By
24	Place a suitable weigh boat on a balance. Tare the balance and dispense the required quantity of Naloxone HCl Dihydrate into the weigh boat. Multiple weight boats may be used. Each weigh boat should be tared before dispensing. Record the total quantity of Naloxone HCl Dihydrate dispensed.	Required Quantity	65.69 (65.59 – 65.79)	grams	
	Net Quantity, Weigh Boat 1	48.97	grams		
	Net Quantity, Weigh Boat 2	16.80	grams		
	Net Quantity, Weigh Boat 3	WIA	grams		
	Total Quantity Dispensed	65.77	grams		
	Balance Minimum Weight	2g			
	Balance ID	A145			
	Update the dispensing label on the Naloxone HCl Dihydrate raw material container (✓) (<input checked="" type="checkbox"/>). Remove the Naloxone HCl Dihydrate raw material container from the room (✓) (<input checked="" type="checkbox"/>).			TB	POF
25	Slowly add the dispensed Naloxone HCl Dihydrate to the Unfiltered Naloxone Solution vortex. Adjust stirring speed to maintain a vortex during and after powder addition. Mix for NLT 2 minutes and until a clear solution has formed. Timer Started (✓) (<input checked="" type="checkbox"/>).	Mix Time	2:00	min:sec	
	Note: The weigh boat may be rinsed into the container with Unfiltered Naloxone Solution if needed.			TB	POF



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Step	Description	Done By	Checked By			
26	<p>Slowly add the Citric Acid Anhydrous (For Solution Prep) to the Unfiltered Naloxone Solution vortex. Adjust stirring speed to maintain a vortex during and after powder addition. Mix for NLT 2 minutes and until a clear solution has formed.</p> <p>Timer Started (✓) (<u>✓</u>).</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Mix Time</td> <td><u>2:00</u></td> <td>min:sec</td> </tr> </table> <p>Note: The Citric Acid Anhydrous (For Solution Prep) may be rinsed into the container with Unfiltered Naloxone Solution if needed.</p>	Mix Time	<u>2:00</u>	min:sec	<i>TB</i>	<i>PSF</i>
Mix Time	<u>2:00</u>	min:sec				
27	<p>Slowly add the Disodium EDTA Dihydrate (For Solution Prep) to the Unfiltered Naloxone Solution vortex. Adjust mixer speed to maintain a vortex during and after powder addition. Mix for NLT 2 minutes and until a clear solution has formed.</p> <p>Timer Started (✓) (<u>✓</u>).</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Mix Time</td> <td><u>2:00</u></td> <td>min:sec</td> </tr> </table> <p>Note: The Disodium EDTA Dihydrate (For Solution Prep) may be rinsed into the container with Unfiltered Naloxone Solution if needed.</p>	Mix Time	<u>2:00</u>	min:sec	<i>TB</i>	<i>PSF</i>
Mix Time	<u>2:00</u>	min:sec				
28	<p>Slowly add the Sodium Chloride (For Solution Prep) to the vortex. Adjust stirring speed to maintain a vortex during and after powder addition. Mix for NLT 2 minutes and until a clear solution has formed.</p> <p>Timer Started (✓) (<u>✓</u>).</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Mix Time</td> <td><u>2:00</u></td> <td>min:sec</td> </tr> </table> <p>Note: The Sodium Chloride (For Solution Prep) may be rinsed into the container with Unfiltered Naloxone Solution if needed.</p>	Mix Time	<u>2:00</u>	min:sec	<i>TB</i>	<i>PSF</i>
Mix Time	<u>2:00</u>	min:sec				



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Step	Description			Done By	Checked By
29	Place the 1N NaOH Solution on an appropriate balance and tare the solution. Increase the mixing speed of the Unfiltered Naloxone Solution so that a vigorous vortex is formed without splashing the solution. Dropwise, slowly add the required quantity of 1N NaOH Solution using a FisherBrand Elite Pipette, 100 – 1000 µL with a fresh 1 mL tip until the required quantity of 1N NaOH Solution has been added. Mix for NLT 2 minutes following the complete addition of 1N NaOH Solution . <u>(1)</u>	Required Quantity Net Quantity Balance Minimum Weight Balance ID	16.63 (16.50 – 16.76) 16.64 2g A145	grams grams grams grams	TB BF
30	Zero an appropriate balance and place the Unfiltered Naloxone Solution container on it. Obtain the gross weight. Calculate the net quantity of Unfiltered Naloxone Solution and Sterile Water required to Q.S. the solution to a net quantity of 1,000 grams .	A Gross weight of solution/container B Tare weight (from label) C Net quantity of Solution (gross – tare) D Additional Sterile Water required (= 1,000 – C) E Balance Minimum Weight F Balance ID	1157.49 318.40 839.09 160.91 2g A145	grams grams grams grams grams	TB BF

(1) Solution mixed for 2'00 min/sec following total addition. TB 10/21/2020 PSF 10/21/20



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Step	Description	Done By	Checked By												
31	<p>Place a Nalgene Beaker (600 mL) on a balance. Tare the balance and dispense the required quantity of Sterile Water into the container.</p> <table border="1"> <thead> <tr> <th>Required Quantity</th><th>Step 30D +/- 1.0</th><th>grams</th></tr> </thead> <tbody> <tr> <td>Net Quantity</td><td><u>161.51</u></td><td>grams</td></tr> <tr> <td>Balance Minimum Weight</td><td><u>2g</u></td><td></td></tr> <tr> <td>Balance ID</td><td><u>A145</u></td><td></td></tr> </tbody> </table>	Required Quantity	Step 30D +/- 1.0	grams	Net Quantity	<u>161.51</u>	grams	Balance Minimum Weight	<u>2g</u>		Balance ID	<u>A145</u>		<u>TB</u>	<u>PSF</u>
Required Quantity	Step 30D +/- 1.0	grams													
Net Quantity	<u>161.51</u>	grams													
Balance Minimum Weight	<u>2g</u>														
Balance ID	<u>A145</u>														
32	<p>Transfer the Sterile Water dispensed in the prior Step to the Unfiltered Naloxone Solution. Place the solution on the magnetic stir plate. Turn on the stirrer so that a gentle vortex is achieved. Continue stirring for NLT 5 minutes.</p> <p>Timer Started (✓) (<u>✓</u>).</p> <table border="1"> <thead> <tr> <th>Mix Time</th><th><u>5:00</u></th><th>min:sec</th></tr> </thead> </table>	Mix Time	<u>5:00</u>	min:sec	<u>TB</u>	<u>PSF</u>									
Mix Time	<u>5:00</u>	min:sec													
33	<p>Prepare a labeled HDPE container with lid (2 gal) to collect Naloxone Waste. Waste includes in-process pH samples, filter flushes and other discarded solution. Obtain the tare weight of the empty container with lid. Ensure that the label contains the following:</p> <p>Batch Record#: M4097-01A Material: Naloxone Waste Receiving Number: N/A Lot Number: N/A Tare Weight: Net Quantity: Initials/Date:</p> <table border="1"> <thead> <tr> <th>Tare weight (with lid)</th><th><u>550.20</u></th><th>grams</th></tr> </thead> <tbody> <tr> <td>Balance Minimum Weight</td><td><u>2g</u></td><td></td></tr> <tr> <td>Balance ID</td><td><u>A145</u></td><td></td></tr> </tbody> </table> <p>Update the container label with tare weight (✓) (<u>✓</u>). Update duplicate label to the in-process section of the batch record (✓) (<u>✓</u>).</p>	Tare weight (with lid)	<u>550.20</u>	grams	Balance Minimum Weight	<u>2g</u>		Balance ID	<u>A145</u>		<u>TB</u>	<u>PSF</u>			
Tare weight (with lid)	<u>550.20</u>	grams													
Balance Minimum Weight	<u>2g</u>														
Balance ID	<u>A145</u>														



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Step	Description		Done By	Checked By				
34	Verify that the pH meter has been calibrated. If the calibration has not been done on the current date, perform calibration as instructed in SOP A25. Record the calibration in the equipment logbook.	<table border="1"><tr><td>pH Meter ID</td><td><i>A185</i></td></tr><tr><td>Calibration has been performed and passed (✓)</td><td><i>✓</i></td></tr></table>	pH Meter ID	<i>A185</i>	Calibration has been performed and passed (✓)	<i>✓</i>	<i>TB</i>	<i>PJF</i>
pH Meter ID	<i>A185</i>							
Calibration has been performed and passed (✓)	<i>✓</i>							



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Step	Description					Done By	Checked By
35	Solution pH Adjustment Record data in the table below. All samples will be placed into Naloxone Waste after measurement is completed. 1. Using a sterile disposable pipette, transfer a sufficient quantity of Unfiltered Naloxone Solution into a tared glass scintillation vial. Record the weight of solution sampled. 2. Measure the initial pH of the solution. 3. If the pH is less than 4.40, add additional aliquots of 1N NaOH Solution as needed to reach target range. a. Mix for NLT 2 minutes before sampling. 4. If the pH is greater than 4.60, add aliquots of 1N HCl Solution as needed to reach target range. a. Mix for NLT 2 minutes before sampling.						

Target pH: 4.50
Acceptable Range: 4.40 – 4.60

Addition #	1N NaOH Solution Added (g)	1N HCl Solution Added (g)	Mixing Time (min:sec)	Sample Quantity (g)	pH		
0	n/a	n/a	0:0	<u>7.51</u>	<u>4.40</u>		
1							
2							
3							
4							
5							
6							
7							
8							
Total	A: <u>n/a</u>	B: <u>n/a</u>	<u>n/a</u>	C: <u>7.51</u>			

DMS 26 Oct 2020

TB PSF



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Step	Description	Done By	Checked By																				
36	<p>Return the Unfiltered Naloxone Solution to a zeroed balance. Obtain the gross weight of the solution/container. Calculate the net quantity of unfiltered solution prepared.</p> <table border="1"> <tr> <td>Gross weight of solution/container</td><td><u>1311.31</u></td><td>grams</td><td><i>TB</i></td></tr> <tr> <td>Tare weight (from label)</td><td><u>318.40</u></td><td>grams</td><td><i>POT</i></td></tr> <tr> <td>Net quantity of unfiltered solution (gross-tare)</td><td><u>992.91</u></td><td>grams</td><td></td></tr> <tr> <td>Balance Minimum Weight</td><td><u>2g</u></td><td></td><td></td></tr> <tr> <td>Balance ID</td><td><u>A145</u></td><td></td><td></td></tr> </table> <p>Update the in-process label to reflect the current net quantity (✓) (<u>✓</u>). Update the duplicate label in the in-process section of the batch record (✓) (<u>✓</u>).</p>	Gross weight of solution/container	<u>1311.31</u>	grams	<i>TB</i>	Tare weight (from label)	<u>318.40</u>	grams	<i>POT</i>	Net quantity of unfiltered solution (gross-tare)	<u>992.91</u>	grams		Balance Minimum Weight	<u>2g</u>			Balance ID	<u>A145</u>				
Gross weight of solution/container	<u>1311.31</u>	grams	<i>TB</i>																				
Tare weight (from label)	<u>318.40</u>	grams	<i>POT</i>																				
Net quantity of unfiltered solution (gross-tare)	<u>992.91</u>	grams																					
Balance Minimum Weight	<u>2g</u>																						
Balance ID	<u>A145</u>																						
37	Record the end time, room Magnehelic pressure reading, and the current temperature and relative humidity in Step 11.	<i>POT</i>	<i>TB</i>																				
38	<p>QA In-Process Check (Solution Preparation):</p> <p>All steps are completed and in-process specifications met (✓) (<u>✓</u>).</p> <p>All calculations have been verified (✓) (<u>✓</u>).</p> <p>Content on all labels has been verified (✓) (<u>✓</u>).</p> <p>QA Initials / Date: <u>DC 10/21/20</u></p>																						



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VII. Filtration:

Step	Description	Done By	Checked By												
39	<p>Prepare a labeled glass Media Bottle with Lid (1L) for collection of Filtered Naloxone Solution. Record the tare weight of the labeled container with lid. Ensure that the label contains the following:</p> <p>Batch Record#: M4097-01A Material: Filtered Naloxone Solution Receiving Number: N/A Lot Number: N/A Tare Weight: Net Quantity: Initials/Date :</p> <p>Update the container label with the tare weight (✓) (<input checked="" type="checkbox"/>). Update the duplicate label in the in-process section of the batch record (✓) (<input checked="" type="checkbox"/>).</p>	<u>TB</u>	<u>POF</u>												
40	<p>Setup the peristaltic pump with Tygon 17 tubing. Attach an OptiScale 47 filter to the outlet side. Place the HDPE Container labeled Naloxone Waste on a balance. Tare the balance.</p> <p>Turn on the peristaltic pump and flush the required quantity of Unfiltered Naloxone Solution through the filter into the waste container.</p> <table border="1"><tr><td>Required flush quantity</td><td>300 - 325</td><td>grams</td></tr><tr><td>Net quantity of flush</td><td><u>300.84</u></td><td>grams</td></tr><tr><td>Balance Minimum Weight</td><td><u>2g</u></td><td></td></tr><tr><td>Balance ID</td><td><u>A145</u></td><td></td></tr></table>	Required flush quantity	300 - 325	grams	Net quantity of flush	<u>300.84</u>	grams	Balance Minimum Weight	<u>2g</u>		Balance ID	<u>A145</u>		<u>TB</u>	<u>POF</u>
Required flush quantity	300 - 325	grams													
Net quantity of flush	<u>300.84</u>	grams													
Balance Minimum Weight	<u>2g</u>														
Balance ID	<u>A145</u>														



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Step	Description	Done By	Checked By															
41	<p>Filtration Instructions:</p> <ol style="list-style-type: none"> 1. Direct the outlet of the filter into the media bottle labeled Filtered Naloxone Solution. 2. Turn on the peristaltic pump and filter the entire remaining quantity of Unfiltered Naloxone Solution into the media bottle. 3. Place the cap securely on the media bottle. 4. Transfer any unfiltered solution to the Naloxone Waste container. 5. Discard the pump tubing and used filter. 6. Update the duplicate label for the Unfiltered Naloxone Solution in the in-process section to reflect a net quantity remaining of 0 grams. 	TB	JSF															
42	<p>Obtain the gross weight (with lid) of the Media Bottle used to collect Filtered Naloxone Solution. Calculate the net quantity of filtered solution available.</p> <table border="1"> <tr> <td>Gross weight (with lid)</td> <td><u>1264.33</u></td> <td>grams</td> </tr> <tr> <td>Tare weight (from label)</td> <td><u>587.09</u></td> <td>grams</td> </tr> <tr> <td>Net quantity (gross – tare)</td> <td><u>677.24</u></td> <td>grams</td> </tr> <tr> <td>Balance Minimum Weight</td> <td><u>2g</u></td> <td></td> </tr> <tr> <td>Balance ID</td> <td><u>A145</u></td> <td></td> </tr> </table> <p>Update the container label with the net quantity of solution (✓) (<u>✓</u>). Update the duplicate label in the in-process section of the batch record (✓) (<u>✓</u>).</p>	Gross weight (with lid)	<u>1264.33</u>	grams	Tare weight (from label)	<u>587.09</u>	grams	Net quantity (gross – tare)	<u>677.24</u>	grams	Balance Minimum Weight	<u>2g</u>		Balance ID	<u>A145</u>		TB	RF
Gross weight (with lid)	<u>1264.33</u>	grams																
Tare weight (from label)	<u>587.09</u>	grams																
Net quantity (gross – tare)	<u>677.24</u>	grams																
Balance Minimum Weight	<u>2g</u>																	
Balance ID	<u>A145</u>																	



EMERSON
RESOURCES INC

MANUFACTURING BATCH RECORD

Solution Preparation for Naloxone Swabs

Batch Record Number:

Issued By/ Date:

M4097-01A

DC OCT 20 2020

Date Executed: 10/21/2020 Initials: TB

Step	Description	Done By	Checked By															
43	<p>Collect any remaining waste in the Naloxone Waste container and seal with the lid. Determine the net quantity collected.</p> <table border="1"> <tr> <td>Gross weight of waste/container/lid</td><td><u>866.27</u></td><td>grams</td></tr> <tr> <td>Tare weight (from label)</td><td><u>550.20</u></td><td>grams</td></tr> <tr> <td>Net quantity (gross – tare)</td><td><u>316.07</u> ⁽¹⁾</td><td>grams</td></tr> <tr> <td>Balance Minimum Weight</td><td><u>2g</u></td><td></td></tr> <tr> <td>Balance ID</td><td><u>A145</u></td><td></td></tr> </table> <p>Update the label on the container to reflect the current net quantity (✓) (<u>✓</u>). Update the duplicate label in the In-Process Section to reflect net quantity of waste collected (✓) (<u>✓</u>).</p>	Gross weight of waste/container/lid	<u>866.27</u>	grams	Tare weight (from label)	<u>550.20</u>	grams	Net quantity (gross – tare)	<u>316.07</u> ⁽¹⁾	grams	Balance Minimum Weight	<u>2g</u>		Balance ID	<u>A145</u>		<i>TB</i>	<i>PSF</i>
Gross weight of waste/container/lid	<u>866.27</u>	grams																
Tare weight (from label)	<u>550.20</u>	grams																
Net quantity (gross – tare)	<u>316.07</u> ⁽¹⁾	grams																
Balance Minimum Weight	<u>2g</u>																	
Balance ID	<u>A145</u>																	
44	<p>Prepare a labeled HDPE container with lid (2 gal) to collect HCl / NaOH Waste. Waste includes remaining pH adjustment solutions. Ensure that the label contains the following:</p> <p>Batch Record#: M4097-01A Material: HCl / NaOH Waste Receiving Number: N/A Lot Number: N/A Tare Weight: N/A Net Quantity: N/A Initials/Date:</p> <p>Update duplicate label to the in-process section of the batch record (✓) (<u>✓</u>).</p>	<i>TB</i>	<i>PSF</i>															
45	Transfer the 1N HCl Solution and 1N NaOH Solution to the HCl / NaOH Waste container and seal with the lid.	<i>TB</i>	<i>PSF</i>															

⁽¹⁾ 316.07g - For clarity. *TB* 10/26/2020 *PSF* 10/27/2020



EMERSON
RESOURCES INC

MANUFACTURING BATCH RECORD

Solution Preparation for Naloxone Swabs

Batch Record Number:

Issued By/ Date:

M4097-01A

DC OCT 20 2020

Date Executed: 10/21/2020 Initials: TB

Step	Description	Done By	Checked By																																				
46	<p>Filtered Naloxone Solution Accountability:</p> <table border="1"> <tr> <td>A</td><td>Net quantity of formulation excipients added (Step 12A + Step 12D + Step 12G + Step 22 + Step 24, Total)</td><td><u>71.8854</u></td><td>grams</td></tr> <tr> <td>B</td><td>Net quantity of sterile water added (Step 23 + Step 31)</td><td><u>913.22</u></td><td>grams</td></tr> <tr> <td>C</td><td>Net quantity of pH adjustment solution added (Step 29 + Step 35A + Step 35B)</td><td><u>16.64</u></td><td>grams</td></tr> <tr> <td>D</td><td>Net quantity of all components (A + B + C)</td><td><u>1001.7454</u></td><td>grams</td></tr> <tr> <td>E</td><td>Net quantity of pH samples taken (Step 35C)</td><td><u>7.51</u></td><td>grams</td></tr> <tr> <td>F</td><td>Net quantity of Filtered Naloxone Solution (Step 42)</td><td><u>677.24</u></td><td>grams</td></tr> <tr> <td>G</td><td>Net quantity of Naloxone Waste (Step 43)</td><td><u>316.07</u></td><td>grams</td></tr> <tr> <td>H</td><td>Accountability (≥ 90 and $\leq 102\%$): $(E + F + G) / D \times 100$ Notify QA if accountability is less than 90% or greater than 102%.</td><td><u>100</u></td><td>%</td></tr> <tr> <td>I</td><td>Yield (For Information Only) $F / D \times 100$</td><td><u>68</u></td><td>%</td></tr> </table>	A	Net quantity of formulation excipients added (Step 12A + Step 12D + Step 12G + Step 22 + Step 24, Total)	<u>71.8854</u>	grams	B	Net quantity of sterile water added (Step 23 + Step 31)	<u>913.22</u>	grams	C	Net quantity of pH adjustment solution added (Step 29 + Step 35A + Step 35B)	<u>16.64</u>	grams	D	Net quantity of all components (A + B + C)	<u>1001.7454</u>	grams	E	Net quantity of pH samples taken (Step 35C)	<u>7.51</u>	grams	F	Net quantity of Filtered Naloxone Solution (Step 42)	<u>677.24</u>	grams	G	Net quantity of Naloxone Waste (Step 43)	<u>316.07</u>	grams	H	Accountability (≥ 90 and $\leq 102\%$): $(E + F + G) / D \times 100$ Notify QA if accountability is less than 90% or greater than 102%.	<u>100</u>	%	I	Yield (For Information Only) $F / D \times 100$	<u>68</u>	%	<i>TB</i>	<i>RJF</i>
A	Net quantity of formulation excipients added (Step 12A + Step 12D + Step 12G + Step 22 + Step 24, Total)	<u>71.8854</u>	grams																																				
B	Net quantity of sterile water added (Step 23 + Step 31)	<u>913.22</u>	grams																																				
C	Net quantity of pH adjustment solution added (Step 29 + Step 35A + Step 35B)	<u>16.64</u>	grams																																				
D	Net quantity of all components (A + B + C)	<u>1001.7454</u>	grams																																				
E	Net quantity of pH samples taken (Step 35C)	<u>7.51</u>	grams																																				
F	Net quantity of Filtered Naloxone Solution (Step 42)	<u>677.24</u>	grams																																				
G	Net quantity of Naloxone Waste (Step 43)	<u>316.07</u>	grams																																				
H	Accountability (≥ 90 and $\leq 102\%$): $(E + F + G) / D \times 100$ Notify QA if accountability is less than 90% or greater than 102%.	<u>100</u>	%																																				
I	Yield (For Information Only) $F / D \times 100$	<u>68</u>	%																																				
47	Record the current room temperature, relative humidity, and Magnehelic pressure reading in the table in Step 11 (✓) (_____).	<i>TB</i>	<i>RJF</i>																																				
48	<p>Remove the chart recorder paper and store it with the batch record. Record the date, current time, and initials on the chart recorder paper.</p> <p>Update the "Attachments List" in the Technical Review section of this batch record to indicate that the Chart Paper has been filed with the record (✓) (_____).</p>	<i>TB</i>	<i>RJF</i>																																				



EMERSON
RESOURCES INC

MANUFACTURING BATCH RECORD

Solution Preparation for Naloxone Swabs

Batch Record Number:

Issued By/ Date:

M4097-01A

DC OCT 20 2020

Date Executed: 10/21/2020 Initials: TK

Step	Description	Done By	Checked By
49	<p>Final QA In-Process Check:</p> <p>All steps are complete and any in-process specifications have been met (✓) (<u>✓</u>).</p> <p>Content on all labels has been verified (✓) (<u>✓</u>).</p> <p>QA Initials / Date: <u>DC 10/21/20</u></p>		



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MANUFACTURING BATCH RECORD

Solution Preparation for Naloxone Swabs

Batch Record Number:

Issued By/ Date:

M4097-01A

DC OCT 20 2020

VIII. In-Process Section:

Clinical Batch In Process Label

TB 10/21/2020

Batch Record#:M4097-01A

Material: Citric Acid Anhydrous (For Solution Prep)

Receiving#: R200807-01A

Lot#: S006054

Tare Weight: 20.3817g

Net Quantity: 1.9582g

Initials/Date: *10/21/2020 TB L.E. for 10/21/2020 TB 10/21/2020*

Emerson Resources – 600 Markley Street – Norristown, PA 19401 – (Phone) 610-279-7450

Clinical Batch In Process Label

TB 10/21/2020

Batch Record#:M4097-01A

Material: Citric Acid Anhydrous (Retain Sample)

Receiving#: R200807-01A

Lot#: S006054

Tare Weight: 4.32g

Net Quantity: 19.38g

Retain Exp: *10/21/2022*

Initials/Date: *TB 10/21/2020*

Emerson Resources – 600 Markley Street – Norristown, PA 19401 – (Phone) 610-279-7450

DMS 26 OCT 2020

Clinical Batch In Process Label

Batch Record#:M4097-01A

Material: Disodium EDTA Dihydrate (For Solution Prep)

Receiving#: R180427-02

Lot#: E300000683

Tare Weight: 20.1595g

Net Quantity: 0.5758g

Initials/Date: *TB 10/21/2020*

Emerson Resources – 600 Markley Street – Norristown, PA 19401 – (Phone) 610-279-7450

TB 10/21/2020

TB 10/21/2020

Clinical Batch In Process Label

Batch Record#:M4097-01A

Material: Disodium EDTA Dihydrate (Retain Sample)

Receiving#: R180427-02

Lot#: E300000683

Tare Weight: 4.28g

Net Quantity: 19.38g

Retain Exp: *TB 10/21/2022*

EE TB 10/21/2020

Initials/Date: *TB 10/21/2020*

Emerson Resources – 600 Markley Street – Norristown, PA 19401 – (Phone) 610-279-7450

Clinical Batch In Process Label

Batch Record#:M4097-01A

Material: Sodium Chloride (Retain Sample)

Receiving#: R200203-02A

Lot#: 0000248072

Tare Weight: 4.34g

Net Quantity: 20.75g

Initials/Date: *TB 10/21/2020*

Emerson Resources – 600 Markley Street – Norristown, PA 19401 – (Phone) 610-279-7450

TB 10/21/2020

Clinical Batch In Process Label

Batch Record#:M4097-01A

Material: Sodium Chloride (For Solution Prep)

Receiving#: R200203-02A

Lot#: 0000248072

Tare Weight: 20.2921g

Net Quantity: 1.5334g

Initials/Date: *TB 10/21/2020*

Emerson Resources – 600 Markley Street – Norristown, PA 19401 – (Phone) 610-279-7450

TB 10/21/2020

Retain Exp: *10/21/2022*

Emerson Resources – 600 Markley Street – Norristown, PA 19401 – (Phone) 610-279-7450



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MANUFACTURING BATCH RECORD

Solution Preparation for Naloxone Swabs

Batch Record Number:

Issued By/ Date:

M4097-01A

OCT 20 2020

VIII. In-Process Section (Continued):

Clinical Batch In Process Label

Batch Record#: M4097-01A

Material: Sodium Hydroxide Pellets (For pH solution)

Receiving#: R190627-01

Lot#: 0000231642

Tare Weight: 4.38g

Net Quantity: 20.14g

Initials/Date: TB 10/21/20

Emerson Resources – 600 Markley Street – Norristown, PA 19401 – (Phone) 610-279-7450

Clinical Batch In Process Label

Batch Record#: M4097-01A

Material: Sodium Hydroxide Pellets (Retain Sample)

Receiving#: R190627-01

Lot#: 0000231642

Tare Weight: 4.34g

Net Quantity: 19.90g

Initials/Date: TB 10/21/2020

Emerson Resources – 600 Markley Street – Norristown, PA 19401 – (Phone) 610-279-7450

TS 10/21/20

Retain Exp: 10/21/2022

TB 10/21/2020

Clinical Batch In Process Label

Batch Record#: M4097-01A

Material: Hydrochloric Acid (For pH Solution)

Receiving#: R160808-02

Lot#: 0000144734

Tare Weight: 246.13g

Net Quantity: 49.18g

Initials/Date: TB 10/21/2020

Emerson Resources – 600 Markley Street – Norristown, PA 19401 – (Phone) 610-279-7450

TB 10/21/2020

TB 10/21/2020

Clinical Batch In Process Label

Batch Record#: M4097-01A

Material: Hydrochloric Acid (Retain Sample)

Receiving#: R160808-02

Lot#: 0000144734

Tare Weight: 246.50g

Net Quantity: 19.90g

Initials/Date: TB 10/21/2020

Retain Exp: 10/21/2022

Emerson Resources – 600 Markley Street – Norristown, PA 19401 – (Phone) 610-279-7450

TB 10/21/2020

Clinical Batch In Process Label

Clinical Batch In Process Label

Batch Record#: M4097-01A

Material: Benzalkonium Chloride (50% w/w solution) (Retain Sample)

Receiving#: R200813-01A

Lot#: BCBZ4386

Tare Weight: 245.36g

Net Quantity: 20.07g

Initials/Date: TB 10/21/20

Retain Exp: 10/21/2022

Emerson Resources – 600 Markley Street – Norristown, PA 19401 – (Phone) 610-279-7450

TB 10/21/20

Clinical Batch In Process Label

Batch Record#: M4097-01A

Material: 1N NaOH Solution

Receiving#: N/A

Lot#: N/A

Tare Weight: 88.41g

Net Quantity: N/A

Initials/Date: TB 10/21/20

Emerson Resources – 600 Markley Street – Norristown, PA 19401 – (Phone) 610-279-7450



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MANUFACTURING BATCH RECORD

Solution Preparation for Naloxone Swabs

Batch Record Number:

Issued By/ Date:

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VIII. In-Process Section (Continued):

Clinical Batch In Process Label

TB 10/21/2020

Batch Record#:M4097-01A

Material: 1N HCl Solution

Receiving#: N/A

Lot#: N/A

Tare Weight: 88.57g

Net Quantity: N/A

Initials/Date: TB 10/21/2020

Emerson Resources – 600 Markley Street – Norristown, PA 19401 – (Phone) 610-279-7450

Clinical Batch In Process Label

TB 10/21/2020

Batch Record#:M4097-01A

Material: Unfiltered Naloxone Solution

Receiving#: N/A

Lot#: N/A

Tare Weight: 318.40g

Net Quantity: 992.91g

Initials/Date: TB 10/21/2020

Emerson Resources – 600 Markley Street – Norristown, PA 19401 – (Phone) 610-279-7450

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Clinical Batch In Process Label

TB 10/21/2020

Batch Record#:M4097-01A

Material: Naloxone Waste

Receiving#: N/A

Lot#: N/A

Tare Weight: 550.20g

Net Quantity: 316.07g

Initials/Date: TB 10/21/2020

Emerson Resources – 600 Markley Street – Norristown, PA 19401 – (Phone) 610-279-7450

Clinical Batch In Process Label

TB 10/21/2020

Batch Record#:M4097-01A

Material: Filtered Naloxone Solution

Receiving#: N/A

Lot#: N/A

Tare Weight: 587.09g

Net Quantity: 677.24g

Initials/Date: TB 10/21/2020

Emerson Resources – 600 Markley Street – Norristown, PA 19401 – (Phone) 610-279-7450

Clinical Batch In Process Label

TB 10/21/2020

Batch Record#:M4097-01A

Material: HCl / NaOH Waste

Receiving#: N/A

Lot#: N/A

Tare Weight: N/A

Net Quantity: N/A

Initials/Date: TB 10/21/2020

Emerson Resources – 600 Markley Street – Norristown, PA 19401 – (Phone) 610-279-7450



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MANUFACTURING BATCH RECORD

Solution Preparation for Naloxone Swabs

Batch Record Number:

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Issued By/ Date:

OC
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VIII. In-Process Section (Continued):

DMS 26 Oct 2020



EMERSON
RESOURCES INC

MANUFACTURING BATCH RECORD

Solution Preparation for Naloxone Swabs

Batch Record Number:

Issued By/ Date:

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Oc OCT 20 2020

IX. Comments:

A large rectangular area containing a grid of approximately 20 horizontal lines. A single diagonal line starts from the bottom-left corner and extends towards the top-right corner. Handwritten markings are present on this diagonal line: 'OC' near the bottom left, 'A' below 'OC', and '11/14/20' further up the line.



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MANUFACTURING BATCH RECORD

Solution Preparation for Naloxone Swabs

Batch Record Number:

Issued By/ Date:

M4097-01A

DC OCT 20 2020

IX. Comments (Continued):

PC 11/6/20



EMERSON
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MANUFACTURING BATCH RECORD

Solution Preparation for Naloxone Swabs

Batch Record Number:

Issued By/ Date:

M4097-01A

DC

OCT 20 2020

X. Technical Review:

Step	Description	Reviewed By / Date																		
50	<p>Technical Review:</p> <p>A. All pages are present. B. All signatures and dates are present. C. All calculations have been checked and are correct. D. All results and/or yields are within the specified range. E. All in process criteria were satisfied. F. Any deviations were documented. G. All attachments listed below are present.</p> <table border="1"><thead><tr><th>Attachment Name</th><th># of pages</th><th>Initials/Date</th></tr></thead><tbody><tr><td>Daily Chart Recorder Paper</td><td>1</td><td>TB 10/21/2020</td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></tbody></table> <p>DMS 26 Oct 2020</p>	Attachment Name	# of pages	Initials/Date	Daily Chart Recorder Paper	1	TB 10/21/2020													<p>DUS 27 Oct 2020</p>
Attachment Name	# of pages	Initials/Date																		
Daily Chart Recorder Paper	1	TB 10/21/2020																		



MANUFACTURING BATCH RECORD

EMERSON
RESOURCES INC

Solution Preparation for Naloxone Swabs

Batch Record Number:

Issued By/ Date:

M4097-01A

OCT 20 2020

XI. Final Batch Record Approval:

This batch record was reviewed after its execution and was found to be acceptable. The signatures below indicate approval of this batch record as adequate, complete, and correct.

Emerson Resources, Inc. Approval

Approver	Signature	Date
Quality Assurance Representative		11/6/20

Pocket Naloxone Corp. Approval

Approver	Signature	Printed Name	Title	Date
Representative				
Representative				

