

MN Plasmid TG Report

Program Name (on pipette)

MN Plasmid TG

User Credentials

Name: eva.meszaros


























Date: 28. Jan. 2022

Overview Method



VIAFLO -
1,250µl -
12CH

1 Initial Volumes Fill Reservoir 1...	2 Repeat Dispense Resuspend bacterial cells (...	3 Message Turn on shaker (~600 rpm)	4 Delay 4 min...
5 Message Turn off shaker	6 Message Check if the bacterial cell...	7 Repeat Dispense Lyse bacterial cells (Buffer...	8 Message Turn on shaker (300 rpm)
9 Delay 2 min...	10 Message Turn off shaker	11 Repeat Dispense Neutralize rows 1-4 (Buffer...	12 Repeat Dispense Neutralize rows 5-8 (Buffer...
13 Transfer Mix and transfer crude lysa...	14 Delay Incubate 1 min for optimal ...	15 Message Apply vacuum (-0.2 to -0.4 ...	16 Delay Wait until the crude lysate...
17 Message Release vacuum	18 Message Reassemble vacuum manifold...	19 Message Apply vacuum (-0.2 to -0.4 ...	20 Delay Wait until all cleared lysa...
21 Volume Change Release vacuum	22 Message Release vacuum	23 Repeat Dispense 1st wash (Buffer ERB) rows1...	24 Repeat Dispense 1st wash (Buffer ERB) rows ...
25 Repeat Dispense 1st wash (Buffer ERB) rows ...	26 Repeat Dispense 1st wash (Buffer ERB) rows ...	27 Delay Incubation of Buffer ERB	28 Message Apply vacuum (-0.2 to -0.4 ...
29 Delay Allow the buffer to pass th...	30 Message Change the reservoir to Buf...	31 Volume Change Volumes of new reservoir...	32 Message Release vacuum
33 Repeat Dispense 2nd wash (Buffer AQ) rows 1...	34 Repeat Dispense 2nd wash (Buffer AQ) rows 3...	35 Repeat Dispense 2nd wash (Buffer AQ) rows 5...	36 Repeat Dispense 2nd wash (Buffer AQ) rows 7...
37 Delay Incubation with Buffer AQ	38 Message Apply vacuum (-0.2 to -0.4 ...	39 Delay Allow the buffer to pass th...	40 Volume Change

41 Message  Release vacuum	42 Message  Remove MN Wash Plate and Wa...	43 Repeat Dispense  3rd wash (Buffer AQ) rows 1...	44 Repeat Dispense  3rd wash (Buffer AQ) rows 3...
45 Repeat Dispense  3rd wash (Buffer AQ) rows 5...	46 Repeat Dispense  3rd wash (Buffer AQ) rows 7...	47 Delay  Incubation with Buffer AQ	48 Message  Apply vacuum (-0.2 to -0.4 ...
49 Delay  Allow the buffer to pass th...	50 Message  Release vacuum	51 Message  Remove MN Wash Plate and Wa...	52 Message  Remove any residual wash bu...
53 Message  Close the manifold base wit...	54 Message  Apply vacuum of -0.4 to -0...	55 Delay  Dry Plasmid Binding Plate	56 Message  Release vacuum
57 Message  Insert Elution Plate U-bott...	58 Message  Change the reservoir to Buf...	59 Volume Change  Reservoir 3:...	60 Repeat Dispense  Elute plasmid DNA
61 Delay  Incubate Buffer AE on the m...	62 Message  Apply vacuum (-0.4 to -0.6 ...	63 Delay  Allow the buffer to pass th...	64 Message  Release vacuum
65 Message  Remove the Elution Plate U-...			

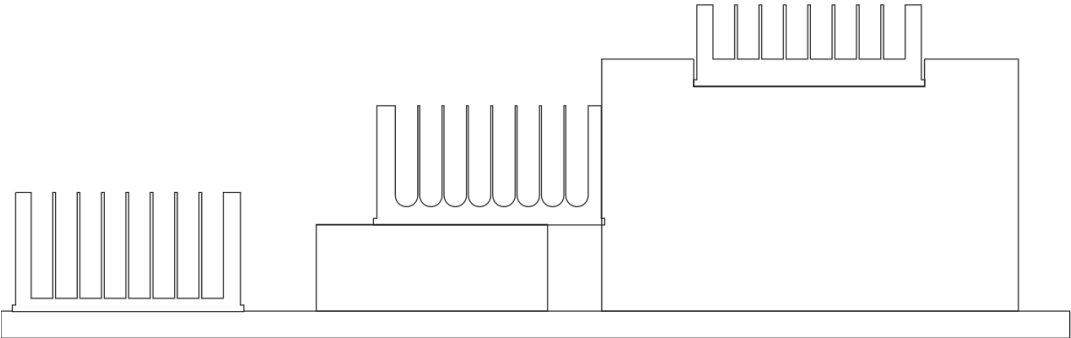
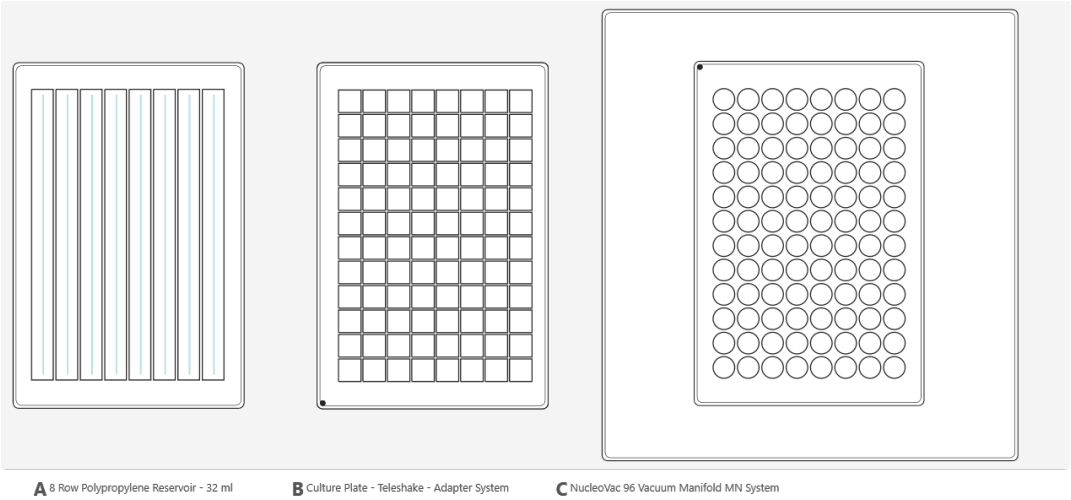
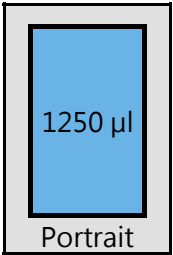
Total Time: 49 min 37 sec

Total Tip Consumption: 180

Description

This Program is written according to the NucleoSpin 96 Transfection-grade Plasmid Kit user manual for optimal usage of the Kit with the ASSIST PLUS pipetting robot.

Deck Layout




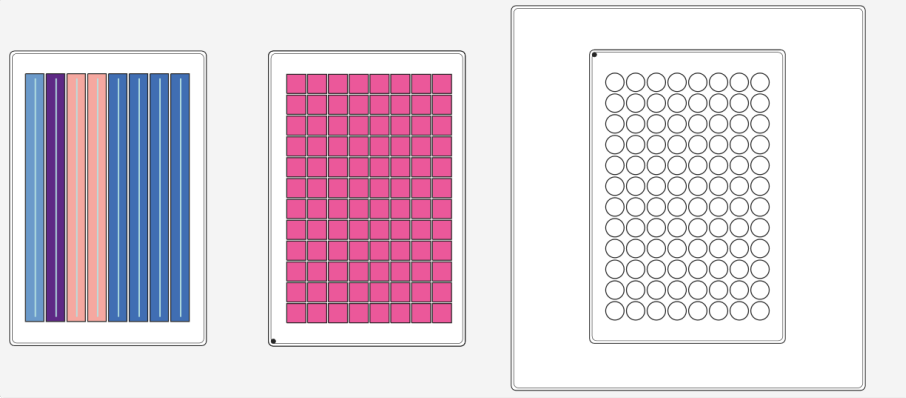
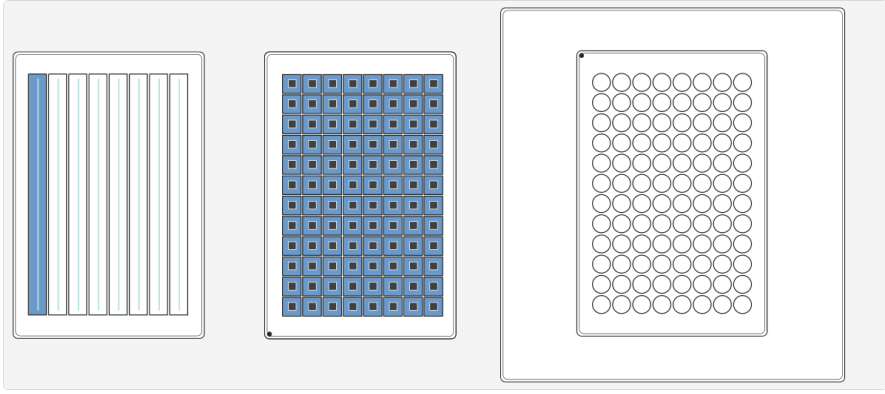
Pipette & Deck

Labware	Name	Manufacturer	Part Number
Pipette	VIAFLO 1,250µl 12 channels	INTEGRA	4634
Pipette Tip	1250 µl GripTip, Sterile, Filter	INTEGRA	6445
Deck	3 Position Deck_Macherey Nagel	INTEGRA	






Deck Labware

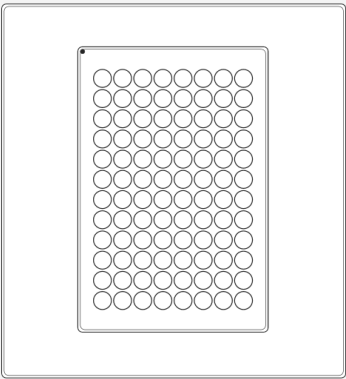
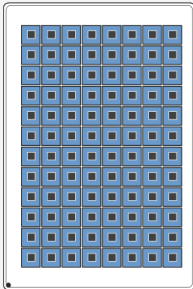
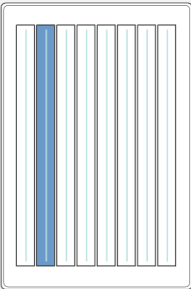
Deck Position	Labware	Name	Manufacturer	Part Number	Description
A	Reservoir	8 Row Polypropylene Reservoir - 32 ml	INTEGRA	6371, 6372	
B	COMBI System	Culture Plate - Teleshake - Adapter System			- shaking device - including F-bottom adapter
	B1	COMBISystem_96 Deepwell U-bottom_Culture Plate_Macherey Nagel	Ritter Medical (Riplate)	740488,740488.24	Culture plate provided in Plasmid DNA Purification kit Macherey Nagel PN 740625.1
C	COMBI System	NucleoVac 96 Vacuum Manifold MN System	MACHEREY NAGEL	740681	
	C1	COMBISystem_COMBISystem_Filter plate macherey nagel	Macherey Nagel		Automatically rotated
D	Waste				





Method

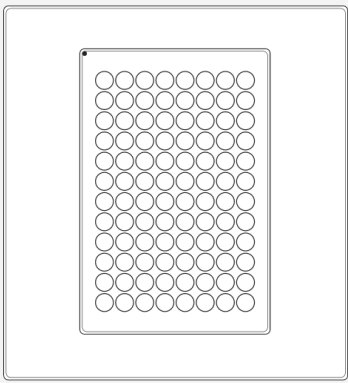
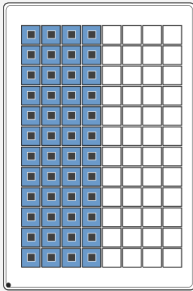
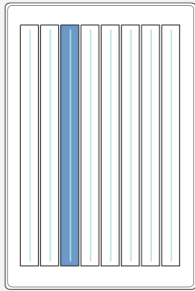
Step	Description
<p>1 Initial Volum...</p>  <p>Description: Fill Reservoir 1</p> <p>Row A: 25 ml Buffer A1 Row B: 26 ml Buffer A2 Row C and D: 18 ml Buffer A3 Row E, F, G and H: 23 ml Buffer ERB</p>	 <p>0 µl 25 ml 18 ml 26 ml 23 ml</p>
<p>2 Repeat Dispen...</p>  <p>Time: 1 min 7 sec Used Tips: 12</p> <p>Description: Resuspend bacterial cells (Buffer A1)</p> <p>Summary individual transfers</p>	

Step	Description						
		Source			Target		
	Step	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]
	1	A	A1	31.9 mm	B	B1 A12-A1	73.9 mm
	2	A	A1	31.9 mm	B	B1 B12-B1	73.9 mm
	3	A	A1	31.9 mm	B	B1 C12-C1	73.9 mm
	4	A	A1	31.9 mm	B	B1 D12-D1	73.9 mm
	5	A	A1	31.9 mm	B	B1 E12-E1	73.9 mm
	6	A	A1	31.9 mm	B	B1 F12-F1	73.9 mm
	7	A	A1	31.9 mm	B	B1 G12-G1	73.9 mm
	8	A	A1	31.9 mm	B	B1 H12-H1	73.9 mm
Pipetting settings							
Tab		Parameter			Set value		
Pipetting location		Source: Tip Spacing Target: Tip Spacing			Source: 9 mm Target: B1: 9 mm		
Volumes		Volume Post-Dispense Post-Dispense Location Reuse Post-Dispense Dispense Type Air Gap			Fix 40 µl Source No Multi 30 µl		
Pipetting Speeds		Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate			6 0 6 0 No		
Pipetting Height		Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset			Source: Fix Yes 1.2 mm Target: B1: Fix No B1: 2 mm		
Tip Change		Tip Change			After step complete		
Mix		Source: Mixing Target: Mixing			Source: No Target: No		
Tip Touch		Tip Touch			No		

Step	Description								
3 Message 	Pipetting settings <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Turn on shaker 600 rpm</td></tr></table>			Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Turn on shaker 600 rpm
Tab	Parameter	Set value							
Message	Message Line 1 Message Line 2 Message Line 3	Turn on shaker 600 rpm							
Description: Turn on shaker (~600 rpm)									
4 Delay 	Pipetting settings <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Delay</td><td>Delay Time Skip Delay by RUN</td><td>240 Yes</td></tr></table>			Tab	Parameter	Set value	Delay	Delay Time Skip Delay by RUN	240 Yes
Tab	Parameter	Set value							
Delay	Delay Time Skip Delay by RUN	240 Yes							
Description: 4 min Make sure sample is fully resuspended									
5 Message 	Pipetting settings <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Turn off shaker -</td></tr></table>			Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Turn off shaker -
Tab	Parameter	Set value							
Message	Message Line 1 Message Line 2 Message Line 3	Turn off shaker -							
Description: Turn off shaker									
6 Message 	Pipetting settings <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Check bacterial cell pellet</td></tr></table>			Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Check bacterial cell pellet
Tab	Parameter	Set value							
Message	Message Line 1 Message Line 2 Message Line 3	Check bacterial cell pellet							
Description: Check if the bacterial cell pellet is resuspended									
7 Repeat Dispen... 									

Step	Description																																																																																																		
<p>Time: 1 min 7 sec</p> <p>Used Tips: 12</p> <p>Description: Lyse bacterial cells (Buffer A2)</p>	<div></div> <p>Summary individual transfers</p> <table><tr><th></th><th colspan="3">Source</th><th colspan="3">Target</th><th></th></tr><tr><th>Step</th><th>Deck Position</th><th>Well Positions</th><th>Start Height [mm]</th><th>Deck Position</th><th>Well Positions</th><th>Start Height [mm]</th><th>Volume [µl]</th></tr><tr><td>1</td><td>A</td><td>A2</td><td>31.7 mm</td><td>B</td><td>B1 A12-A1</td><td>74.2 mm</td><td>250</td></tr><tr><td>2</td><td>A</td><td>A2</td><td>31.7 mm</td><td>B</td><td>B1 B12-B1</td><td>74.2 mm</td><td>250</td></tr><tr><td>3</td><td>A</td><td>A2</td><td>31.7 mm</td><td>B</td><td>B1 C12-C1</td><td>74.2 mm</td><td>250</td></tr><tr><td>4</td><td>A</td><td>A2</td><td>31.7 mm</td><td>B</td><td>B1 D12-D1</td><td>74.2 mm</td><td>250</td></tr><tr><td>5</td><td>A</td><td>A2</td><td>31.7 mm</td><td>B</td><td>B1 E12-E1</td><td>74.2 mm</td><td>250</td></tr><tr><td>6</td><td>A</td><td>A2</td><td>31.7 mm</td><td>B</td><td>B1 F12-F1</td><td>74.2 mm</td><td>250</td></tr><tr><td>7</td><td>A</td><td>A2</td><td>31.7 mm</td><td>B</td><td>B1 G12-G1</td><td>74.2 mm</td><td>250</td></tr><tr><td>8</td><td>A</td><td>A2</td><td>31.7 mm</td><td>B</td><td>B1 H12-H1</td><td>74.2 mm</td><td>250</td></tr></table> <p>Pipetting settings</p> <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Pipetting location</td><td>Source: Tip Spacing Target: Tip Spacing</td><td>Source: 9 mm Target: B1: 9 mm</td></tr><tr><td>Volumes</td><td>Volume Post-Dispense Post-Dispense Location Reuse Post-Dispense Dispense Type Air Gap</td><td>Fix 30 µl Source No Multi 30 µl</td></tr><tr><td>Pipetting Speeds</td><td>Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate</td><td>6 0 6 0 No</td></tr><tr><td>Pipetting Height</td><td>Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset</td><td>Source: Fix Yes 1.3 mm Target: B1: Fix No B1: 2 mm</td></tr><tr><td>Tip Change</td><td>Tip Change</td><td>After step complete</td></tr></table>		Source			Target				Step	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	Volume [µl]	1	A	A2	31.7 mm	B	B1 A12-A1	74.2 mm	250	2	A	A2	31.7 mm	B	B1 B12-B1	74.2 mm	250	3	A	A2	31.7 mm	B	B1 C12-C1	74.2 mm	250	4	A	A2	31.7 mm	B	B1 D12-D1	74.2 mm	250	5	A	A2	31.7 mm	B	B1 E12-E1	74.2 mm	250	6	A	A2	31.7 mm	B	B1 F12-F1	74.2 mm	250	7	A	A2	31.7 mm	B	B1 G12-G1	74.2 mm	250	8	A	A2	31.7 mm	B	B1 H12-H1	74.2 mm	250	Tab	Parameter	Set value	Pipetting location	Source: Tip Spacing Target: Tip Spacing	Source: 9 mm Target: B1: 9 mm	Volumes	Volume Post-Dispense Post-Dispense Location Reuse Post-Dispense Dispense Type Air Gap	Fix 30 µl Source No Multi 30 µl	Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	6 0 6 0 No	Pipetting Height	Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset	Source: Fix Yes 1.3 mm Target: B1: Fix No B1: 2 mm	Tip Change	Tip Change	After step complete
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Tip Change	Tip Change	After step complete																																																																																																	


Step	Description		
	Mix	Source: Mixing Target: Mixing	Source: No Target: No
	Tip Touch	Tip Touch	No
8 Message 	Pipetting settings		
Description: Turn on shaker (300 rpm)	Tab	Parameter	Set value
	Message	Message Line 1 Message Line 2 Message Line 3	Turn on shaker 300 rpm
9 Delay 	Pipetting settings		
Description: 2 min Do not incubate longer than 5 minutes.	Tab	Parameter	Set value
	Delay	Delay Time Skip Delay by RUN	120 Yes
10 Message 	Pipetting settings		
Description: Turn off shaker	Tab	Parameter	Set value
	Message	Message Line 1 Message Line 2 Message Line 3	Turn off shaker -
11 Repeat Dispen... 			
Time: 0 min 42 sec Used Tips: 12			

Step	Description																																																				
Description: Neutralize rows 1-4 (Buffer A3)	<div></div>																																																				
	Summary individual transfers																																																				
	<table><tr><th rowspan="2">Step</th><th colspan="3">Source</th><th colspan="3">Target</th><th rowspan="2">Volume [µl]</th></tr><tr><th>Deck Position</th><th>Well Positions</th><th>Start Height [mm]</th><th>Deck Position</th><th>Well Positions</th><th>Start Height [mm]</th></tr><tr><td>1</td><td>A</td><td>A3</td><td>24 mm</td><td>B</td><td>B1 A12-A1</td><td>76.1 mm</td><td>350</td></tr><tr><td>2</td><td>A</td><td>A3</td><td>24 mm</td><td>B</td><td>B1 B12-B1</td><td>76.1 mm</td><td>350</td></tr><tr><td>3</td><td>A</td><td>A3</td><td>24 mm</td><td>B</td><td>B1 C12-C1</td><td>76.1 mm</td><td>350</td></tr><tr><td>4</td><td>A</td><td>A3</td><td>24 mm</td><td>B</td><td>B1 D12-D1</td><td>76.1 mm</td><td>350</td></tr></table>	Step	Source			Target			Volume [µl]	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	1	A	A3	24 mm	B	B1 A12-A1	76.1 mm	350	2	A	A3	24 mm	B	B1 B12-B1	76.1 mm	350	3	A	A3	24 mm	B	B1 C12-C1	76.1 mm	350	4	A	A3	24 mm	B	B1 D12-D1	76.1 mm	350						
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Pipetting Height	Dispense Type	Multi																																																			
	Air Gap	30 µl																																																			
Tip Change	Aspiration Speed	6																																																			
	Aspiration Delay	0																																																			
Pipetting Speeds	Dispense Speed	6																																																			
	Dispense Delay	0																																																			
Pipetting Height	Aspirate	No																																																			
	Source: Heights	Source: Fix																																																			
Tip Change	Tip Travel	Yes																																																			
	Safety Bottom Offset	1.3 mm																																																			
Pipetting Height	Target: Heights	Target: B1: Fix																																																			
	Tip Travel	No																																																			
Tip Change	Safety Bottom Offset	B1: 2 mm																																																			
	Tip Change	Continue to next step without change																																																			

Step	Description		
	Mix	Source: Mixing Target: Mixing	Source: No Target: No
	Tip Touch	Tip Touch	No
12 Repeat Dispen...	<div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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iv></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div>		

Step	Description		
	Pipetting Height	Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset	Source: Fix Yes 1.3 mm Target: B1: Fix No B1: 2 mm
	Tip Change	Tip Change	After step complete
	Mix	Source: Mixing Target: Mixing	Source: No Target: No
	Tip Touch	Tip Touch	No

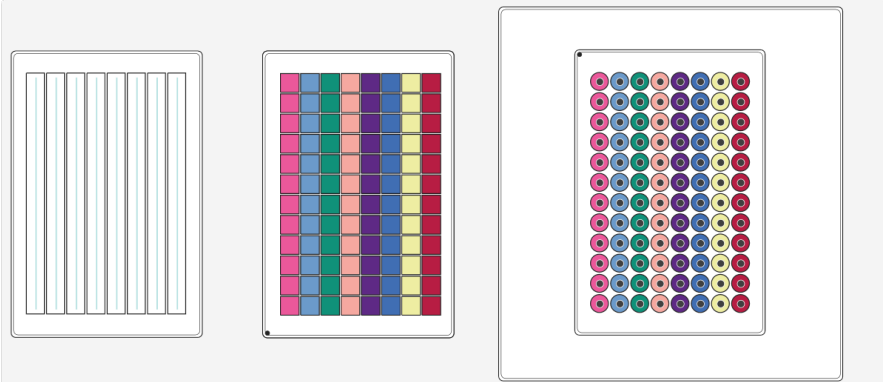
13 Transfer



Time:
5 min 1 sec

Used Tips:
96

Description:
Mix and transfer
crude lysates to the
NucleoSpin
Plasmid Filter Plate







Summary individual transfers




Step	Source			Target			Volume [µl]
	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	
1	B	B1 A12-A1	43 mm	C	C1 A1-L1	105 mm	850
2	B	B1 B12-B1	43 mm	C	C1 A2-L2	105 mm	850
3	B	B1 C12-C1	43 mm	C	C1 A3-L3	105 mm	850
4	B	B1 D12-D1	43 mm	C	C1 A4-L4	105 mm	850
5	B	B1 E12-E1	43 mm	C	C1 A5-L5	105 mm	850
6	B	B1 F12-F1	43 mm	C	C1 A6-L6	105 mm	850
7	B	B1 G12-G1	43 mm	C	C1 A7-L7	105 mm	850
8	B	B1 H12-H1	43 mm	C	C1 A8-L8	105 mm	850


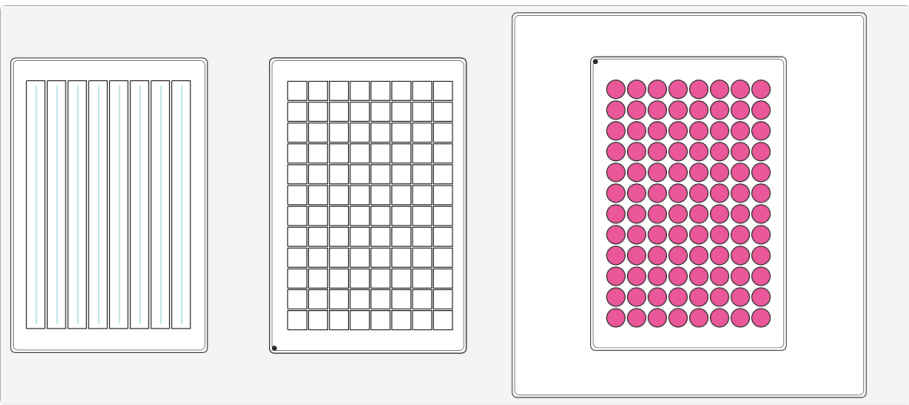


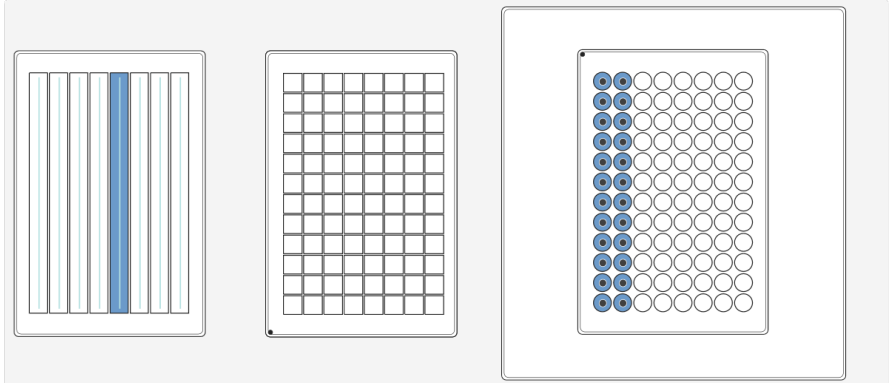
Pipetting settings

Tab	Parameter	Set value
Pipetting location	Source: Tip Spacing Target: Tip Spacing	Source: B1: 9 mm Target: C1: 9 mm
Volumes	Volume	Fix

Step	Description								
	Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	6 0 6 0 No						
	Pipetting Height	Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset	Source: B1: Fix Yes B1: 0.1 mm Target: C1: Variable No C1: 2 mm						
	Tip Change	Tip Change	After each transfer						
	Mix	Source: Mixing Mix Volume Mix Cycles Mix Speed Tip Travel Start Height Target: Mixing	Source: Yes B1: 850 µl 2 6 Yes B1: 41.8 mm Target: No						
	Tip Touch	Tip Touch Type of Tip Touch Tip Touch Height	Yes Liquid C1: 104 mm						
14 Delay 	<div>Pipetting settings</div> <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Delay</td><td>Delay Time Skip Delay by RUN</td><td>60 Yes</td></tr></table>			Tab	Parameter	Set value	Delay	Delay Time Skip Delay by RUN	60 Yes
Tab	Parameter	Set value							
Delay	Delay Time Skip Delay by RUN	60 Yes							
Description: Incubate 1 min for optimal precipitation									

Step	Description								
15 Message 	Pipetting settings <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Apply vacuum -200 to -400 mbar 4 min</td></tr></table>			Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Apply vacuum -200 to -400 mbar 4 min
Tab	Parameter	Set value							
Message	Message Line 1 Message Line 2 Message Line 3	Apply vacuum -200 to -400 mbar 4 min							
Description: Apply vacuum (-0.2 to -0.4 bar, 4 min) If necessary, press down the NucleoSpin Plasmid Binding Plate slightly until flow through starts									
16 Delay 	Pipetting settings <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Delay</td><td>Delay Time Skip Delay by RUN</td><td>240 Yes</td></tr></table>			Tab	Parameter	Set value	Delay	Delay Time Skip Delay by RUN	240 Yes
Tab	Parameter	Set value							
Delay	Delay Time Skip Delay by RUN	240 Yes							
Description: Wait until the crude lysate has passed the NucleoSpin Plasmid Filter Plate									
17 Message 	Pipetting settings <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Release vacuum -</td></tr></table>			Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Release vacuum -
Tab	Parameter	Set value							
Message	Message Line 1 Message Line 2 Message Line 3	Release vacuum -							
Description: Release vacuum									

Step	Description		
18 Message 	Pipetting settings		
Description: Reassemble vacuum manifold Remove and discard the NucleoSpin Plasmid Filter Plate Open the manifold lid Remove the NucleoSpin Plasmid Binding Plate (white rings) with cleared lysates Insert the MN Wash Plate on the spacers inside the manifold base Close the manifold base with the lid Place the Binding Plate on top of the manifold	Tab	Parameter	Set value
	Message	Message Line 1 Message Line 2 Message Line 3	Assemble vac manifold for binding
19 Message 	Pipetting settings		
Description: Apply vacuum (-0.2 to -0.4 bar, 1 min) If necessary, press down the NucleoSpin Plasmid Binding Plate slightly until flow through starts	Tab	Parameter	Set value
	Message	Message Line 1 Message Line 2 Message Line 3	Apply vacuum -200 to -400 mbar 1 min
20 Delay 	Pipetting settings		
Description: Wait until all cleared lysate has drained off	Tab	Parameter	Set value
	Delay	Delay Time Skip Delay by RUN	60 Yes

Step	Description																																				
21 Volume Change 	<div></div>																																				
22 Message 	<p>Pipetting settings</p> <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Release vacuum -</td></tr></table>	Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Release vacuum -																														
Tab	Parameter	Set value																																			
Message	Message Line 1 Message Line 2 Message Line 3	Release vacuum -																																			
23 Repeat Dispen... 	<div></div> <p>Summary individual transfers</p> <table><tr><th rowspan="2">Step</th><th colspan="3">Source</th><th colspan="3">Target</th><th rowspan="2">Volume [µl]</th></tr><tr><th>Deck Position</th><th>Well Positions</th><th>Start Height [mm]</th><th>Deck Position</th><th>Well Positions</th><th>Start Height [mm]</th></tr><tr><td>1</td><td>A</td><td>A5</td><td>22 mm</td><td>C</td><td>C1 A1-L1</td><td>110 mm</td><td>900</td></tr><tr><td>2</td><td>A</td><td>A5</td><td>22 mm</td><td>C</td><td>C1 A2-L2</td><td>110 mm</td><td>900</td></tr></table> <p>Pipetting settings</p> <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Pipetting location</td><td>Source: Tip Spacing Target: Tip Spacing</td><td>Source: 9 mm Target: C1: 9 mm</td></tr></table>	Step	Source			Target			Volume [µl]	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	1	A	A5	22 mm	C	C1 A1-L1	110 mm	900	2	A	A5	22 mm	C	C1 A2-L2	110 mm	900	Tab	Parameter	Set value	Pipetting location	Source: Tip Spacing Target: Tip Spacing	Source: 9 mm Target: C1: 9 mm
Step	Source			Target			Volume [µl]																														
	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]																															
1	A	A5	22 mm	C	C1 A1-L1	110 mm	900																														
2	A	A5	22 mm	C	C1 A2-L2	110 mm	900																														
Tab	Parameter	Set value																																			
Pipetting location	Source: Tip Spacing Target: Tip Spacing	Source: 9 mm Target: C1: 9 mm																																			

Step	Description		
	Volumes	Volume Dispense Type Air Gap	Fix Single 40 µl
	Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	6 0 2 1 No
	Pipetting Height	Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset	Source: Fix Yes 1.3 mm Target: C1: Fix No C1: 2 mm
	Tip Change	Tip Change	Continue to next step without change
	Mix	Source: Mixing Target: Mixing	Source: No Target: No
	Tip Touch	Tip Touch	No

24 Repeat Dispen...

→

Time:
0 min 45 sec

Used Tips:
0

Description:
1st wash (Buffer
ERB) rows 3-4

Summary individual transfers

Step	Source			Target			Volume [µl]
	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	
1	A	A6	22 mm	C	C1 A3-L3	110 mm	900
2	A	A6	22 mm	C	C1 A4-L4	110 mm	900

Pipetting settings

Step	Description		
	Tab	Parameter	Set value
	Pipetting location	Source: Tip Spacing Target: Tip Spacing	Source: 9 mm Target: C1: 9 mm
	Volumes	Volume Dispense Type Air Gap	Fix Single 40 µl
	Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	6 0 2 1 No
	Pipetting Height	Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset	Source: Fix Yes 1.3 mm Target: C1: Fix No C1: 2 mm
	Tip Change	Tip Change	Continue to next step without change
	Mix	Source: Mixing Target: Mixing	Source: No Target: No
	Tip Touch	Tip Touch	No

25 Repeat Dispen...

→

Time:

0 min 45 sec


Used Tips:

0



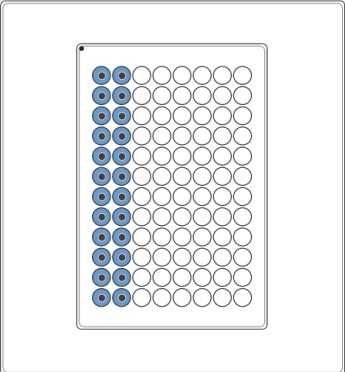
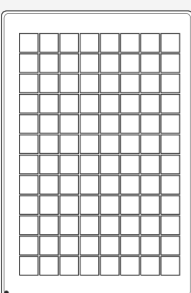
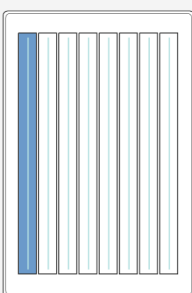
Description:

1st wash (Buffer ERB) rows 5-6

Step	Description						
	Pipetting settings						
	Tab	Parameter			Set value		
	Pipetting location	Source: Tip Spacing Target: Tip Spacing			Source: 9 mm Target: C1: 9 mm		
	Volumes	Volume Dispense Type Air Gap			Fix Single 40 µl		
	Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate			6 0 2 1 No		
	Pipetting Height	Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset			Source: Fix Yes 1.3 mm Target: C1: Fix No C1: 2 mm		
	Tip Change	Tip Change			Continue to next step without change		
	Mix	Source: Mixing Target: Mixing			Source: No Target: No		
Tip Touch	Tip Touch			No			
26 Repeat Dispen...							
<div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> 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Step	Description							
	2	A	A8	22 mm	C	C1 A8-L8	110 mm	900
	Pipetting settings							
	Tab	Parameter			Set value			
	Pipetting location	Source: Tip Spacing Target: Tip Spacing			Source: 9 mm Target: C1: 9 mm			
	Volumes	Volume Dispense Type Air Gap			Fix Single 40 µl			
	Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate			6 0 2 1 No			
	Pipetting Height	Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset			Source: Fix Yes 1.3 mm Target: C1: Fix No C1: 2 mm			
	Tip Change	Tip Change			After step complete			
	Mix	Source: Mixing Target: Mixing			Source: No Target: No			
	Tip Touch	Tip Touch			No			
27 Delay	Pipetting settings							
	Tab	Parameter			Set value			
	Delay	Delay Time Skip Delay by RUN			30 Yes			
Description: Incubation of Buffer ERB								

Step	Description						
28 Message 	<p>Pipetting settings</p> <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Vacuum -200 to -400 mbar 1 min</td></tr></table>	Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Vacuum -200 to -400 mbar 1 min
Tab	Parameter	Set value					
Message	Message Line 1 Message Line 2 Message Line 3	Vacuum -200 to -400 mbar 1 min					
29 Delay 	<p>Pipetting settings</p> <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Delay</td><td>Delay Time Skip Delay by RUN</td><td>60 Yes</td></tr></table>	Tab	Parameter	Set value	Delay	Delay Time Skip Delay by RUN	60 Yes
Tab	Parameter	Set value					
Delay	Delay Time Skip Delay by RUN	60 Yes					
30 Message 	<p>Pipetting settings</p> <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Change reservoir buffer AQ</td></tr></table>	Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Change reservoir buffer AQ
Tab	Parameter	Set value					
Message	Message Line 1 Message Line 2 Message Line 3	Change reservoir buffer AQ					
31 Volume Change 	<div><div></div><div><p>Description: Volumes of new reservoir</p><p>Reservoir 2</p><p>Row A, B, C, D, E, F, G and H: 23 ml Buffer AQ</p></div></div>						

Step	Description																																										
32 Message 	<p>Pipetting settings</p> <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Release vacuum -</td></tr></table>	Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Release vacuum -																																				
Tab	Parameter	Set value																																									
Message	Message Line 1 Message Line 2 Message Line 3	Release vacuum -																																									
33 Repeat Dispen...  Time: 0 min 38 sec Used Tips: 12 Description: 2nd wash (Buffer AQ) rows 1-2	<div></div> <p>Summary individual transfers</p> <table><tr><th rowspan="2">Step</th><th colspan="3">Source</th><th colspan="3">Target</th><th rowspan="2">Volume [µl]</th></tr><tr><th>Deck Position</th><th>Well Positions</th><th>Start Height [mm]</th><th>Deck Position</th><th>Well Positions</th><th>Start Height [mm]</th></tr><tr><td>1</td><td>A</td><td>A1</td><td>22 mm</td><td>C</td><td>C1 A1-L1</td><td>110 mm</td><td>900</td></tr><tr><td>2</td><td>A</td><td>A1</td><td>22 mm</td><td>C</td><td>C1 A2-L2</td><td>110 mm</td><td>900</td></tr></table> <p>Pipetting settings</p> <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Pipetting location</td><td>Source: Tip Spacing Target: Tip Spacing</td><td>Source: 9 mm Target: C1: 9 mm</td></tr><tr><td>Volumes</td><td>Volume Dispense Type Air Gap</td><td>Fix Single 40 µl</td></tr><tr><td>Pipetting Speeds</td><td>Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate</td><td>6 0 4 0 No</td></tr></table>	Step	Source			Target			Volume [µl]	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	1	A	A1	22 mm	C	C1 A1-L1	110 mm	900	2	A	A1	22 mm	C	C1 A2-L2	110 mm	900	Tab	Parameter	Set value	Pipetting location	Source: Tip Spacing Target: Tip Spacing	Source: 9 mm Target: C1: 9 mm	Volumes	Volume Dispense Type Air Gap	Fix Single 40 µl	Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	6 0 4 0 No
Step	Source			Target			Volume [µl]																																				
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1	A	A1	22 mm	C	C1 A1-L1	110 mm	900																																				
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Tab	Parameter	Set value																																									
Pipetting location	Source: Tip Spacing Target: Tip Spacing	Source: 9 mm Target: C1: 9 mm																																									
Volumes	Volume Dispense Type Air Gap	Fix Single 40 µl																																									
Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	6 0 4 0 No																																									

Step	Description		
	Pipetting Height	Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset	Source: Fix Yes 1.3 mm Target: C1: Fix No C1: 2 mm
	Tip Change	Tip Change	Continue to next step without change
	Mix	Source: Mixing Target: Mixing	Source: No Target: No
	Tip Touch	Tip Touch	No

34 Repeat Dispen...

<

Step	Description		
	Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	6 0 4 0 No
	Pipetting Height	Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset	Source: Fix Yes 1.3 mm Target: C1: Fix No C1: 2 mm
	Tip Change	Tip Change	Continue to next step without change
	Mix	Source: Mixing Target: Mixing	Source: No Target: No
	Tip Touch	Tip Touch	No

35 Repeat Dispen...

</

Step	Description		
	Volumes	Volume Dispense Type Air Gap	Fix Single 40 µl
	Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	6 0 4 0 No
	Pipetting Height	Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset	Source: Fix Yes 1.3 mm Target: C1: Fix No C1: 2 mm
	Tip Change	Tip Change	Continue to next step without change
	Mix	Source: Mixing Target: Mixing	Source: No Target: No
	Tip Touch	Tip Touch	No

36 Repeat Dispen...

→

Time:

0 min 37 sec

Used Tips:

0

Description:


2nd wash (Buffer




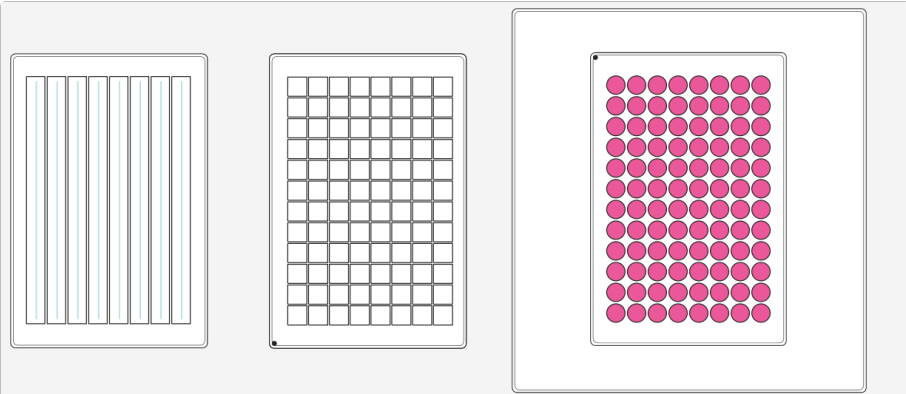

AQ) rows 7-8



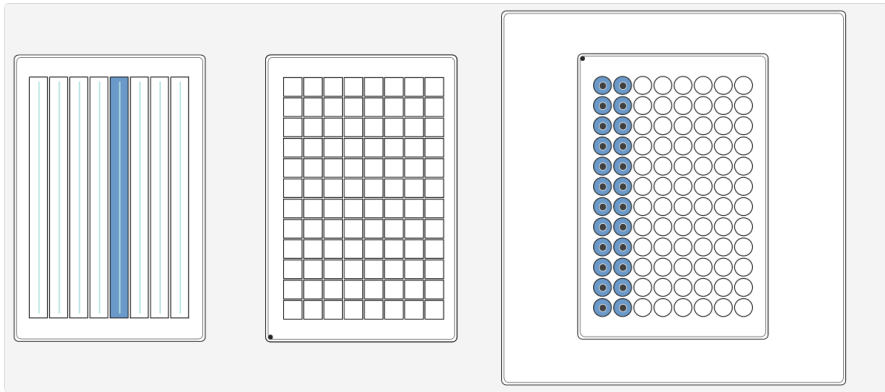
Summary individual transfers

	Source			Target			
Step	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	Volume [µl]
1	A	A4	22 mm	C	C1 A7-L7	110 mm	900
2	A	A4	22 mm	C	C1 A8-L8	110 mm	900

Pipetting settings

Step	Description		
	Tab	Parameter	Set value
	Pipetting location	Source: Tip Spacing Target: Tip Spacing	Source: 9 mm Target: C1: 9 mm
	Volumes	Volume Dispense Type Air Gap	Fix Single 40 µl
	Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	6 0 4 0 No
	Pipetting Height	Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset	Source: Fix Yes 1.3 mm Target: C1: Fix No C1: 2 mm
	Tip Change	Tip Change	After step complete
	Mix	Source: Mixing Target: Mixing	Source: No Target: No
	Tip Touch	Tip Touch	No
37 Delay 	Pipetting settings		
Description: Incubation with Buffer AQ	Tab	Parameter	Set value
	Delay	Delay Time Skip Delay by RUN	30 Yes

Step	Description								
38 Message 	<p>Pipetting settings</p> <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Apply vacuum -200 to -400 mbar 1 min</td></tr></table>			Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Apply vacuum -200 to -400 mbar 1 min
Tab	Parameter	Set value							
Message	Message Line 1 Message Line 2 Message Line 3	Apply vacuum -200 to -400 mbar 1 min							
Description: Apply vacuum (-0.2 to -0.4 bar, 1 min) If necessary, press down the NucleoSpin Plasmid Binding Plate slightly until flow through starts									
39 Delay 	<p>Pipetting settings</p> <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Delay</td><td>Delay Time Skip Delay by RUN</td><td>60 Yes</td></tr></table>			Tab	Parameter	Set value	Delay	Delay Time Skip Delay by RUN	60 Yes
Tab	Parameter	Set value							
Delay	Delay Time Skip Delay by RUN	60 Yes							
Description: Allow the buffer to pass the wells									
40 Volume Change 	<div></div>								
41 Message 	<p>Pipetting settings</p> <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Release vacuum -</td></tr></table>			Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Release vacuum -
Tab	Parameter	Set value							
Message	Message Line 1 Message Line 2 Message Line 3	Release vacuum -							
Description: Release vacuum									

Step	Description																																										
42 Message 	<p>Pipetting settings</p> <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Empty waste container</td></tr></table>	Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Empty waste container																																				
Tab	Parameter	Set value																																									
Message	Message Line 1 Message Line 2 Message Line 3	Empty waste container																																									
<p>Description: Remove MN Wash Plate and Waste Container from the inside of the vacuum manifold Empty the waste container</p>																																											
43 Repeat Dispen... 	<div></div> <p>Summary individual transfers</p> <table><tr><th rowspan="2">Step</th><th colspan="3">Source</th><th colspan="3">Target</th><th rowspan="2">Volume [µl]</th></tr><tr><th>Deck Position</th><th>Well Positions</th><th>Start Height [mm]</th><th>Deck Position</th><th>Well Positions</th><th>Start Height [mm]</th></tr><tr><td>1</td><td>A</td><td>A5</td><td>22 mm</td><td>C</td><td>C1 A1-L1</td><td>110 mm</td><td>900</td></tr><tr><td>2</td><td>A</td><td>A5</td><td>22 mm</td><td>C</td><td>C1 A2-L2</td><td>110 mm</td><td>900</td></tr></table> <p>Pipetting settings</p> <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Pipetting location</td><td>Source: Tip Spacing Target: Tip Spacing</td><td>Source: 9 mm Target: C1: 9 mm</td></tr><tr><td>Volumes</td><td>Volume Dispense Type Air Gap</td><td>Fix Single 40 µl</td></tr><tr><td>Pipetting Speeds</td><td>Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate</td><td>6 0 4 0 No</td></tr></table>	Step	Source			Target			Volume [µl]	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	1	A	A5	22 mm	C	C1 A1-L1	110 mm	900	2	A	A5	22 mm	C	C1 A2-L2	110 mm	900	Tab	Parameter	Set value	Pipetting location	Source: Tip Spacing Target: Tip Spacing	Source: 9 mm Target: C1: 9 mm	Volumes	Volume Dispense Type Air Gap	Fix Single 40 µl	Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	6 0 4 0 No
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Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	6 0 4 0 No																																									
<p>Time: 0 min 38 sec Used Tips: 12</p> <p>Description: 3rd wash (Buffer AQ) rows 1-2</p>																																											

Step	Description		
	Pipetting Height	Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset	Source: Fix Yes 1.3 mm Target: C1: Fix No C1: 2 mm
	Tip Change	Tip Change	Continue to next step without change
	Mix	Source: Mixing Target: Mixing	Source: No Target: No
	Tip Touch	Tip Touch	No
44 Repeat Dispen...	<div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> 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Step	Description		
	Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	6 0 4 0 No
	Pipetting Height	Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset	Source: Fix Yes 1.3 mm Target: C1: Fix No C1: 2 mm
	Tip Change	Tip Change	Continue to next step without change
	Mix	Source: Mixing Target: Mixing	Source: No Target: No
	Tip Touch	Tip Touch	No

45 Repeat Dispen...

→

Step	Description		
	Volumes	Volume Dispense Type Air Gap	Fix Single 40 µl
	Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	6 0 4 0 No
	Pipetting Height	Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset	Source: Fix Yes 1.3 mm Target: C1: Fix No C1: 2 mm
	Tip Change	Tip Change	Continue to next step without change
	Mix	Source: Mixing Target: Mixing	Source: No Target: No
	Tip Touch	Tip Touch	No

46 Repeat Dispen...

→

Time:


0 min 36 sec





Used Tips:



0




Description:



3rd wash (Buffer AQ) rows 7-8


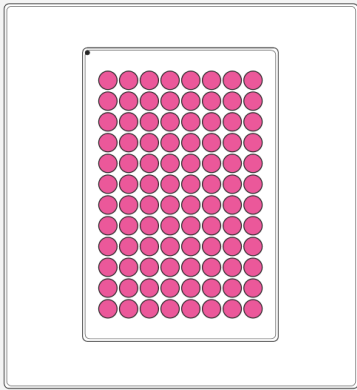
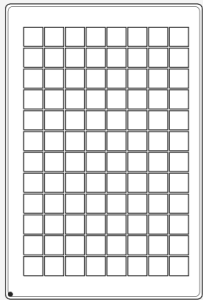


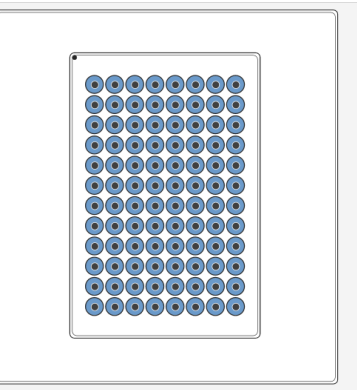
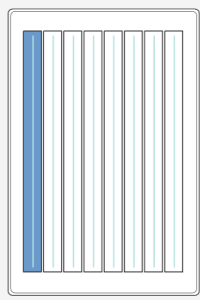
Step	Description		
	Tab	Parameter	Set value
	Pipetting location	Source: Tip Spacing Target: Tip Spacing	Source: 9 mm Target: C1: 9 mm
	Volumes	Volume Dispense Type Air Gap	Fix Single 40 µl
	Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	6 0 4 0 No
	Pipetting Height	Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset	Source: Fix Yes 1.3 mm Target: C1: Fix No C1: 2 mm
	Tip Change	Tip Change	After step complete
	Mix	Source: Mixing Target: Mixing	Source: No Target: No
	Tip Touch	Tip Touch	No
47 Delay 	Pipetting settings		
Description: Incubation with Buffer AQ	Tab	Parameter	Set value
	Delay	Delay Time Skip Delay by RUN	30 No



Step	Description						
48 Message 	<div>Pipetting settings</div> <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Apply vacuum -200 to -400 mbar 1 min</td></tr></table>	Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Apply vacuum -200 to -400 mbar 1 min
Tab	Parameter	Set value					
Message	Message Line 1 Message Line 2 Message Line 3	Apply vacuum -200 to -400 mbar 1 min					
49 Delay 	<div>Pipetting settings</div> <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Delay</td><td>Delay Time Skip Delay by RUN</td><td>60 Yes</td></tr></table>	Tab	Parameter	Set value	Delay	Delay Time Skip Delay by RUN	60 Yes
Tab	Parameter	Set value					
Delay	Delay Time Skip Delay by RUN	60 Yes					
50 Message 	<div>Pipetting settings</div> <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Release vacuum -</td></tr></table>	Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Release vacuum -
Tab	Parameter	Set value					
Message	Message Line 1 Message Line 2 Message Line 3	Release vacuum -					
51 Message 	<div>Pipetting settings</div> <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Remove MN Wash Plate and Waste</td></tr></table>	Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Remove MN Wash Plate and Waste
Tab	Parameter	Set value					
Message	Message Line 1 Message Line 2 Message Line 3	Remove MN Wash Plate and Waste					




Step	Description								
52 Message 	Pipetting settings <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Remove drops from Binding Plate</td></tr></table>			Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Remove drops from Binding Plate
Tab	Parameter	Set value							
Message	Message Line 1 Message Line 2 Message Line 3	Remove drops from Binding Plate							
Description: Remove any residual wash buffer from the NucleoSpin Plasmid Binding Plate If necessary, tap the outlets of the plate onto a clean paper sheet (supplied with the MN Wash Plate) or soft tissue until no drops come out									
53 Message 	Pipetting settings <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Assemble vac manifold for drying</td></tr></table>			Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Assemble vac manifold for drying
Tab	Parameter	Set value							
Message	Message Line 1 Message Line 2 Message Line 3	Assemble vac manifold for drying							
Description: Close the manifold base with the manifold lid Place the NucleoSpin Binding Plate on top of the manifold									

Step	Description								
54 Message 	Pipetting settings <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Vacuum -400 to -600 mbar 12 min</td></tr></table>			Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Vacuum -400 to -600 mbar 12 min
Tab	Parameter	Set value							
Message	Message Line 1 Message Line 2 Message Line 3	Vacuum -400 to -600 mbar 12 min							
Description: Apply vacuum of -0.4 to -0.6 bar for at least 10-15 min to dry the membrane completely Run vacuum pump continuously Typically, the adjusted vacuum is not reached at this step Achieving and keeping a continuous air-flow in order to evaporate the remaining ethanol from Wash Buffer A4 is of more importance than reaching the precise mentioned atmospheric pressure									
55 Delay 	Pipetting settings <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Delay</td><td>Delay Time Skip Delay by RUN</td><td>720 Yes</td></tr></table>			Tab	Parameter	Set value	Delay	Delay Time Skip Delay by RUN	720 Yes
Tab	Parameter	Set value							
Delay	Delay Time Skip Delay by RUN	720 Yes							
Description: Dry Plasmid Binding Plate									
56 Message 	Pipetting settings <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Release vacuum -</td></tr></table>			Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Release vacuum -
Tab	Parameter	Set value							
Message	Message Line 1 Message Line 2 Message Line 3	Release vacuum -							
Description: Release vacuum									

Step	Description								
57 Message 	<div>Pipetting settings</div> <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Assemble vac manifold for elution</td></tr></table>			Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Assemble vac manifold for elution
Tab	Parameter	Set value							
Message	Message Line 1 Message Line 2 Message Line 3	Assemble vac manifold for elution							
<p>Description: Insert Elution Plate U-bottom Remove the manifold lid with the NucleoSpin Plasmid Binding Plate from the vacuum manifold Insert the Elution Plate on the spacers inside the manifold base Close the manifold base with the manifold lid Place the NucleoSpin Plasmid Binding Plate on top of the manifold For elution into microtiter plates, spacers 'MTP/Multi-96 Plate' are required which are already inserted into the manifold base from the previous steps</p>									
58 Message 	<div>Pipetting settings</div> <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Change reservoir Buffer AE</td></tr></table>			Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Change reservoir Buffer AE
Tab	Parameter	Set value							
Message	Message Line 1 Message Line 2 Message Line 3	Change reservoir Buffer AE							
<p>Description: Change the reservoir to Buffer AE</p>									

Step	Description																																																																														
59 Volume Change 	<div></div> <div> 0 µl  16 ml</div> <p>Description: Reservoir 3: Row A: 16 ml Elution buffer AE</p>																																																																														
60 Repeat Dispen... 	<div></div> <p>Time: 1 min 36 sec Used Tips: 12 Description: Elute plasmid DNA</p>																																																																														
<h3>Summary individual transfers</h3> <table><tr><th rowspan="2">Step</th><th colspan="3">Source</th><th colspan="3">Target</th><th rowspan="2">Volume [µl]</th></tr><tr><th>Deck Position</th><th>Well Positions</th><th>Start Height [mm]</th><th>Deck Position</th><th>Well Positions</th><th>Start Height [mm]</th></tr><tr><td>1</td><td>A</td><td>A1</td><td>14 mm</td><td>C</td><td>C1 A1-L1</td><td>110 mm</td><td>150</td></tr><tr><td>2</td><td>A</td><td>A1</td><td>14 mm</td><td>C</td><td>C1 A2-L2</td><td>110 mm</td><td>150</td></tr><tr><td>3</td><td>A</td><td>A1</td><td>14 mm</td><td>C</td><td>C1 A3-L3</td><td>110 mm</td><td>150</td></tr><tr><td>4</td><td>A</td><td>A1</td><td>14 mm</td><td>C</td><td>C1 A4-L4</td><td>110 mm</td><td>150</td></tr><tr><td>5</td><td>A</td><td>A1</td><td>14 mm</td><td>C</td><td>C1 A5-L5</td><td>110 mm</td><td>150</td></tr><tr><td>6</td><td>A</td><td>A1</td><td>14 mm</td><td>C</td><td>C1 A6-L6</td><td>110 mm</td><td>150</td></tr><tr><td>7</td><td>A</td><td>A1</td><td>14 mm</td><td>C</td><td>C1 A7-L7</td><td>110 mm</td><td>150</td></tr><tr><td>8</td><td>A</td><td>A1</td><td>14 mm</td><td>C</td><td>C1 A8-L8</td><td>110 mm</td><td>150</td></tr></table>		Step	Source			Target			Volume [µl]	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	1	A	A1	14 mm	C	C1 A1-L1	110 mm	150	2	A	A1	14 mm	C	C1 A2-L2	110 mm	150	3	A	A1	14 mm	C	C1 A3-L3	110 mm	150	4	A	A1	14 mm	C	C1 A4-L4	110 mm	150	5	A	A1	14 mm	C	C1 A5-L5	110 mm	150	6	A	A1	14 mm	C	C1 A6-L6	110 mm	150	7	A	A1	14 mm	C	C1 A7-L7	110 mm	150	8	A	A1	14 mm	C	C1 A8-L8	110 mm	150
Step	Source			Target			Volume [µl]																																																																								
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1	A	A1	14 mm	C	C1 A1-L1	110 mm	150																																																																								
2	A	A1	14 mm	C	C1 A2-L2	110 mm	150																																																																								
3	A	A1	14 mm	C	C1 A3-L3	110 mm	150																																																																								
4	A	A1	14 mm	C	C1 A4-L4	110 mm	150																																																																								
5	A	A1	14 mm	C	C1 A5-L5	110 mm	150																																																																								
6	A	A1	14 mm	C	C1 A6-L6	110 mm	150																																																																								
7	A	A1	14 mm	C	C1 A7-L7	110 mm	150																																																																								
8	A	A1	14 mm	C	C1 A8-L8	110 mm	150																																																																								
<h3>Pipetting settings</h3> <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Pipetting location</td><td>Source: Tip Spacing Target: Tip Spacing</td><td>Source: 9 mm Target: C1: 9 mm</td></tr><tr><td>Volumes</td><td>Volume Dispense Type</td><td>Fix Single</td></tr><tr><td>Pipetting Speeds</td><td>Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate</td><td>6 0 9 0 No</td></tr></table>		Tab	Parameter	Set value	Pipetting location	Source: Tip Spacing Target: Tip Spacing	Source: 9 mm Target: C1: 9 mm	Volumes	Volume Dispense Type	Fix Single	Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	6 0 9 0 No																																																																		
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Step	Description								
	Pipetting Height	Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset	Source: Fix Yes 1.3 mm Target: C1: Fix No C1: 2 mm						
	Tip Change	Tip Change	After step complete						
	Mix	Source: Mixing Target: Mixing	Source: No Target: No						
	Tip Touch	Tip Touch	No						
61 Delay 	Pipetting settings <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Delay</td><td>Delay Time Skip Delay by RUN</td><td>120 Yes</td></tr></table>			Tab	Parameter	Set value	Delay	Delay Time Skip Delay by RUN	120 Yes
Tab	Parameter	Set value							
Delay	Delay Time Skip Delay by RUN	120 Yes							
Description: Incubate Buffer AE on the membrane for 1-3 min at room temperature									
62 Message 	Pipetting settings <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Vacuum -400 to -600 mbar 1 min</td></tr></table>			Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Vacuum -400 to -600 mbar 1 min
Tab	Parameter	Set value							
Message	Message Line 1 Message Line 2 Message Line 3	Vacuum -400 to -600 mbar 1 min							
Description: Apply vacuum (-0.4 to -0.6 bar, 1 min) If necessary, press down the NucleoSpin Plasmid Binding Plate slightly until flow through starts									

Step	Description								
63 Delay 	Pipetting settings <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Delay</td><td>Delay Time Skip Delay by RUN</td><td>60 Yes</td></tr></table>			Tab	Parameter	Set value	Delay	Delay Time Skip Delay by RUN	60 Yes
Tab	Parameter	Set value							
Delay	Delay Time Skip Delay by RUN	60 Yes							
Description: Allow the buffer to pass the wells									
64 Message 	Pipetting settings <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Release vacuum -</td></tr></table>			Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Release vacuum -
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Message	Message Line 1 Message Line 2 Message Line 3	Release vacuum -							
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65 Message 	Pipetting settings <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message Line 2 Message Line 3</td><td>Remove seal and store eluates</td></tr></table>			Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Remove seal and store eluates
Tab	Parameter	Set value							
Message	Message Line 1 Message Line 2 Message Line 3	Remove seal and store eluates							
Description: Remove the Elution Plate U-bottom containing eluted DNA and seal the plate with adhesive cover foil for further storage									

Run Protocol

Program Name Program Name (on pipette)	MN Plasmid TG.iaa MN Plasmid TG
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Instrument - Serial Number ASSIST PLUS	
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Pipette - Serial Number VIAFLO - 1,250µl - 12CH	
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Pipette Tips - Lot Number 1250 µl GripTip, Sterile, Filter	
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Notes:	
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Run Operator:	
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Run Date:	
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Run Start Time:	
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Run End Time:	
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Signature:	
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