

NucleoSpin-96-Plasmid-DNA-Macherey-Nagel Report

INTEGRA
VIALAB

Program Name (on pipette)

MN Plasmid

User Credentials

Name: LSa






















Date: 26. Oct. 2020

Overview Method



VIAFLO -
1,250µl -
12CH

1 Initial Volumes Fill Reservoir	2 Repeat Dispense Resuspend bacterial cells (...	3 Message Turn on shaker (1000 rpm)	4 Delay 4 min...
5 Message Turn off shaker	6 Repeat Dispense Lyse bacterial cells (Buffer...	7 Message Turn on shaker (300 rpm)	8 Delay 2 min...
9 Message Turn off shaker	10 Repeat Dispense Neutralize row 1-4 (Buffer ...	11 Repeat Dispense Neutralize row 5-8 (Buffer ...	12 Transfer Mix and transfer crude lysa...
13 Delay Incubate 1 min for optimal ...	14 Message Apply vacuum (-0.2 to -0.4 ...	15 Delay Wait until the crude lysate...	16 Message Release vacuum
17 Message Reassemble vacuum manifold...	18 Message Apply vacuum (-0.2 to -0.4 ...	19 Delay Wait until all cleared lysa...	20 Volume Change Volumes of new reservoir
21 Message Release vacuum	22 Repeat Dispense 1st wash (Buffer AW) row 1-4	23 Repeat Dispense 1st wash (Buffer AW) row 5-8	24 Delay Incubation of Buffer AW
25 Message Apply vacuum (-0.2 to -0.4 ...	26 Delay Allow the buffer to pass th...	27 Message Change the reservoir to Buf...	28 Volume Change Volumes of new reservoir
29 Message Release vacuum	30 Repeat Dispense 2nd wash (Buffer A4) row 1-...	31 Repeat Dispense 2nd wash (Buffer A4) row 3-4	32 Repeat Dispense 2nd wash (Buffer A4) row 5-6
33 Repeat Dispense 2nd wash (Buffer A4) row 7-8	34 Delay Incubation of Buffer A4	35 Message Apply vacuum (-0.2 to -0.4 ...	36 Delay Allow the buffer to pass th...
37 Volume Change Volumes of new reservoir	38 Message Release vacuum	39 Repeat Dispense 3rd wash (Buffer A4) row 1-2	40 Repeat Dispense 3rd wash (Buffer A4) row 3-4

41 Repeat Dispense  3rd wash (Buffer A4) row 5-6	42 Repeat Dispense  3rd wash (Buffer A4) row 7-8	43 Delay  Incubation of Buffer A4	44 Message  Apply vacuum (-0.2 to -0.4 ...
45 Delay  Allow the buffer to pass th...	46 Message  Release vacuum	47 Message  Remove MN Wash Plate and Wa...	48 Message  Remove any residual wash bu...
49 Message  Close the manifold base wit...	50 Message  Apply vacuum of -0.4 to -0...	51 Delay  Dry Plasmid Binding Plate	52 Message  Release vacuum
53 Message  Insert Elution Plate U-bott...	54 Message  Change the reservoir to Buf...	55 Volume Change  	56 Repeat Dispense  Elute plasmid DNA
57 Delay  Incubate Buffer AE on the m...	58 Message  Apply vacuum (-0.4 to -0.6 ...	59 Delay  Allow the buffer to pass th...	60 Message  Release vacuum
61 Message  Remove the Elution Plate U-...			

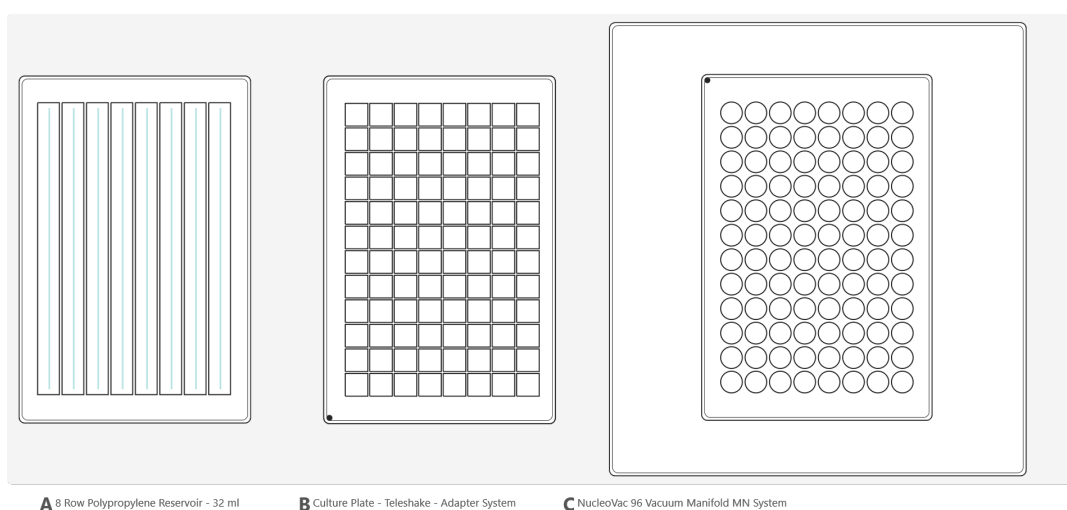
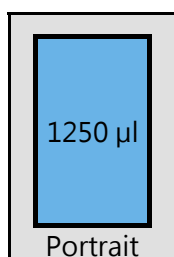
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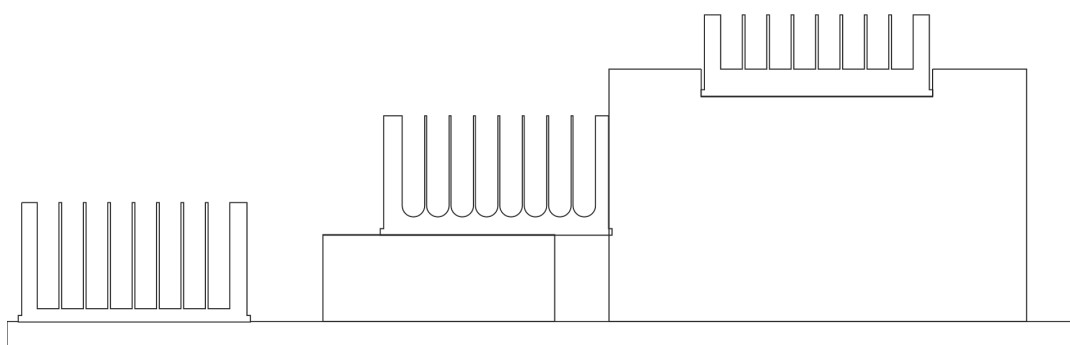
Total Tip Consumption: 180

Description

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

Deck Layout






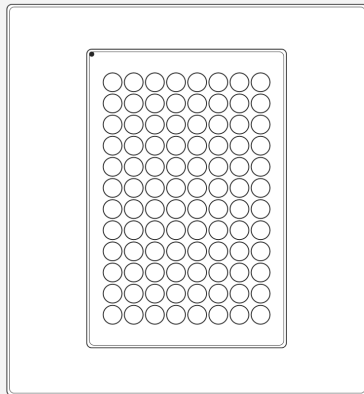
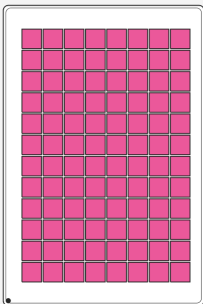
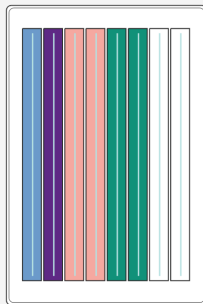
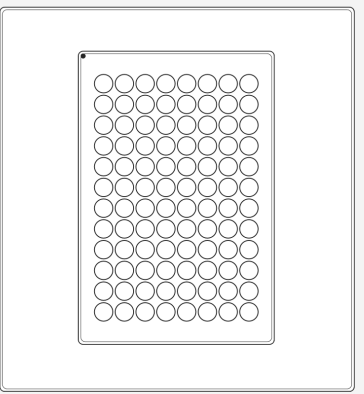
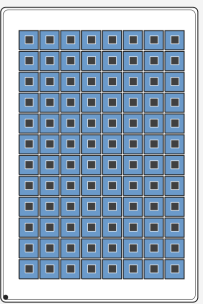
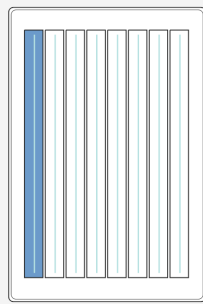
Pipette & Deck



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	



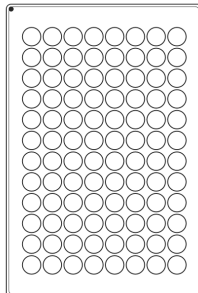
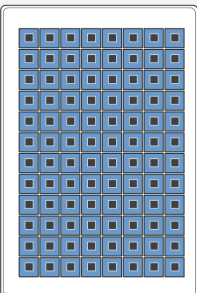
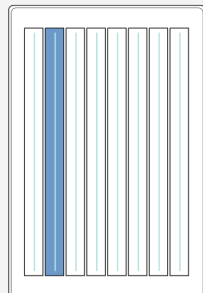
Deck Labware



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)	740488,740 488.24	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_Fil ter plate macherey nagel	Macherey Nagel		Automatically rotated
D	Waste				



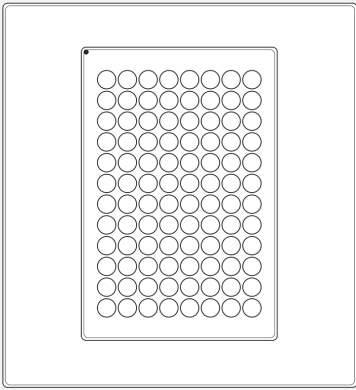
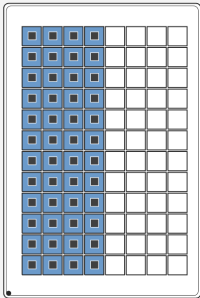
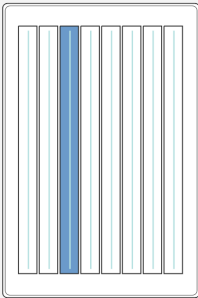
Method

Step	Description																																																																																									
1 Initial Volum...	<div><div></div><div><p>Description: Fill Reservoir</p></div></div> <div><div></div><div><div><div></div>0 µl</div><div><div></div>25 ml</div><div><div></div>18 ml</div><div><div></div>30 ml</div><div><div></div>26 ml</div></div></div>																																																																																									
2 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><p>Time: 1 min 7 sec</p><p>Used Tips: 12</p><p>Description: Resuspend bacterial cells (Buffer A1)</p></div><div><div></div><div><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>31.9 mm</td><td>B</td><td>B1 A12-A1</td><td>73.9 mm</td><td>250</td></tr><tr><td>2</td><td>A</td><td>A1</td><td>31.9 mm</td><td>B</td><td>B1 B12-B1</td><td>73.9 mm</td><td>250</td></tr><tr><td>3</td><td>A</td><td>A1</td><td>31.9 mm</td><td>B</td><td>B1 C12-C1</td><td>73.9 mm</td><td>250</td></tr><tr><td>4</td><td>A</td><td>A1</td><td>31.9 mm</td><td>B</td><td>B1 D12-D1</td><td>73.9 mm</td><td>250</td></tr><tr><td>5</td><td>A</td><td>A1</td><td>31.9 mm</td><td>B</td><td>B1 E12-E1</td><td>73.9 mm</td><td>250</td></tr><tr><td>6</td><td>A</td><td>A1</td><td>31.9 mm</td><td>B</td><td>B1 F12-F1</td><td>73.9 mm</td><td>250</td></tr><tr><td>7</td><td>A</td><td>A1</td><td>31.9 mm</td><td>B</td><td>B1 G12-G1</td><td>73.9 mm</td><td>250</td></tr><tr><td>8</td><td>A</td><td>A1</td><td>31.9 mm</td><td>B</td><td>B1 H12-H1</td><td>73.9 mm</td><td>250</td></tr></table><h3>Pipetting settings</h3><table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td rowspan="2">Pipetting location</td><td>Source: Tip Spacing</td><td>Source: 9 mm</td></tr><tr><td>Target: Tip Spacing</td><td>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 40 µl Source No Multi 30 µl</td></tr></table></div></div></div>	Step	Source			Target			Volume [µl]	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	250	2	A	A1	31.9 mm	B	B1 B12-B1	73.9 mm	250	3	A	A1	31.9 mm	B	B1 C12-C1	73.9 mm	250	4	A	A1	31.9 mm	B	B1 D12-D1	73.9 mm	250	5	A	A1	31.9 mm	B	B1 E12-E1	73.9 mm	250	6	A	A1	31.9 mm	B	B1 F12-F1	73.9 mm	250	7	A	A1	31.9 mm	B	B1 G12-G1	73.9 mm	250	8	A	A1	31.9 mm	B	B1 H12-H1	73.9 mm	250	Tab	Parameter	Set value	Pipetting location	Source: Tip Spacing	Source: 9 mm	Target: Tip Spacing	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
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Tab	Parameter	Set value							
Delay	Delay Time Skip Delay by RUN	240 Yes							
Description: 4 min Make sure sample is fully resuspended									

Step	Description									
5 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>Turn off Shaker -</td></tr></table>	Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Turn off Shaker -			
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Message	Message Line 1 Message Line 2 Message Line 3	Turn off Shaker -								
6 Repeat Dispense...  Time: 1 min 7 sec Used Tips: 12 Description: Lyse bacterial cells (Buffer A2)	<div></div> <div>Pipetting settings</div> <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 25 µl</td></tr></table>	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 25 µl
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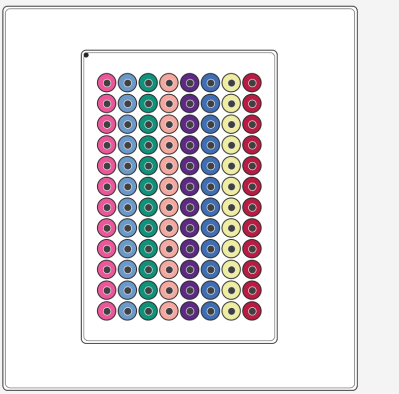
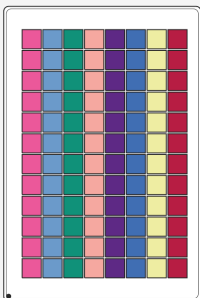
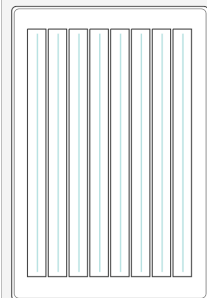
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10 Repeat Dispense...  Time: 0 min 42 sec Used Tips: 12 Description: Neutralize row 1-4 (Buffer A3)	<div></div> <p>Summary individual transfers</p> <table><tr><th rowspan="2">Step</th><th colspan="3">Source</th><th colspan="3">Target</th><th rowspan="2">Volume [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>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> <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 40 µl Source No Multi 25 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></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	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 25 µl	Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	6 0 6 0 No
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	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	Continue to next step without change
	Mix	Source: Mixing Target: Mixing	Source: No Target: No
	Tip Touch	Tip Touch	No




11 Repeat Dispen...


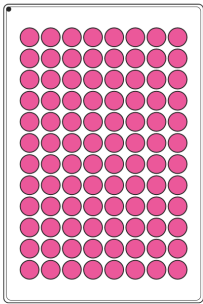
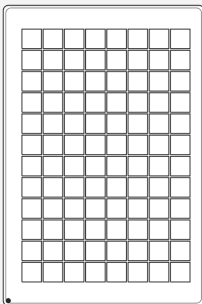
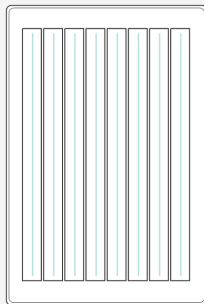



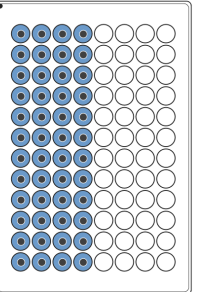
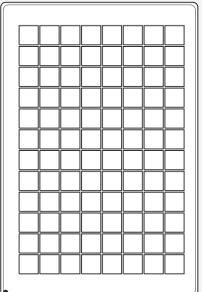
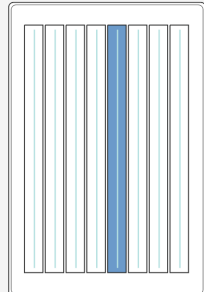
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	Tip Touch	Tip Touch	No																																																																								
12 Transfer 	<div></div>																																																																										
Time: 5 min 23 sec Used Tips: 96 Description: Mix and transfer crude lysates to the NucleoSpin® Plasmid Filter Plate	<div>Summary individual transfers</div> <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>B</td><td>B1 A12-A1</td><td>43 mm</td><td>C</td><td>C1 A1-L1</td><td>105 mm</td><td>850</td></tr><tr><td>2</td><td>B</td><td>B1 B12-B1</td><td>43 mm</td><td>C</td><td>C1 A2-L2</td><td>105 mm</td><td>850</td></tr><tr><td>3</td><td>B</td><td>B1 C12-C1</td><td>43 mm</td><td>C</td><td>C1 A3-L3</td><td>105 mm</td><td>850</td></tr><tr><td>4</td><td>B</td><td>B1 D12-D1</td><td>43 mm</td><td>C</td><td>C1 A4-L4</td><td>105 mm</td><td>850</td></tr><tr><td>5</td><td>B</td><td>B1 E12-E1</td><td>43 mm</td><td>C</td><td>C1 A5-L5</td><td>105 mm</td><td>850</td></tr><tr><td>6</td><td>B</td><td>B1 F12-F1</td><td>43 mm</td><td>C</td><td>C1 A6-L6</td><td>105 mm</td><td>850</td></tr><tr><td>7</td><td>B</td><td>B1 G12-G1</td><td>43 mm</td><td>C</td><td>C1 A7-L7</td><td>105 mm</td><td>850</td></tr></table>				Source			Target				Step	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	Volume [µl]	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
	Source			Target																																																																							
Step	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	Volume [µl]																																																																				
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																																																																				

Step	Description							
	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			
	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: 1.2 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: 800 µl 3 6 Yes B1: 41.8 mm Target: No			
	Tip Touch	Tip Touch			No			
13 Delay	Pipetting settings							
	Tab	Parameter			Set value			
	Delay	Delay Time Skip Delay by RUN			60 Yes			
Description: Incubate 1 min for optimal precipitation.								


Step	Description								
14 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.									
15 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.									
16 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								
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>Assemble Vac manifold for binding</td></tr></table>			Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Assemble Vac manifold for binding
Tab	Parameter	Set value							
Message	Message Line 1 Message Line 2 Message Line 3	Assemble Vac manifold for binding							
<p>Description: Reassemble vacuum manifold</p> <p>Remove and discard the NucleoSpin Plasmid Filter Plate. Open the manifold lid. Remove the NucleoSpin Plasmid Binding Plate (white rings) with cleared lysates.</p> <p>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.</p>									
18 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 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							
<p>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.</p>									
19 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							
<p>Description: Wait until all cleared lysate has drained off.</p>									



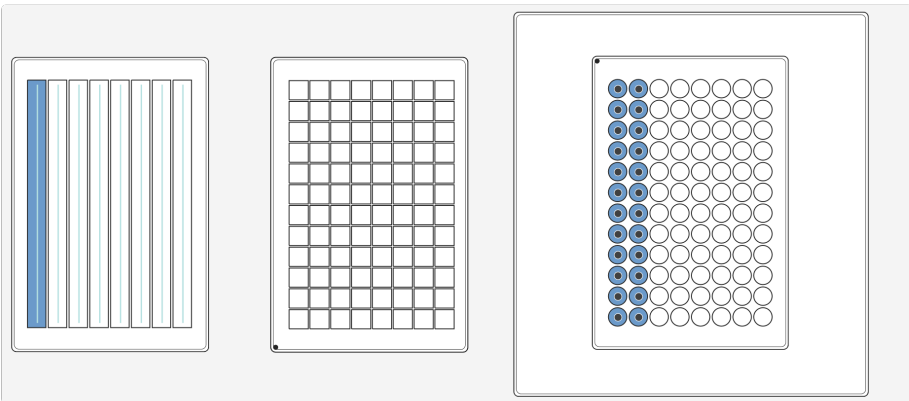
Step	Description																																														
20 Volume Change 	<div></div> <div> 0 µl</div>																																														
21 Message 	<p>Pipetting settings</p> <table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td>Message</td><td>Message Line 1 Message 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 -																																								
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Message	Message Line 1 Message Line 2 Message Line 3	Release Vacuum -																																													
22 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>35.9 mm</td><td>C</td><td>C1 A1-L1</td><td>110 mm</td><td>600</td></tr><tr><td>2</td><td>A</td><td>A5</td><td>35.9 mm</td><td>C</td><td>C1 A2-L2</td><td>110 mm</td><td>600</td></tr><tr><td>3</td><td>A</td><td>A5</td><td>35.9 mm</td><td>C</td><td>C1 A3-L3</td><td>110 mm</td><td>600</td></tr><tr><td>4</td><td>A</td><td>A5</td><td>35.9 mm</td><td>C</td><td>C1 A4-L4</td><td>110 mm</td><td>600</td></tr></table> <p>Pipetting settings</p>	Step	Source			Target			Volume [µl]	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	1	A	A5	35.9 mm	C	C1 A1-L1	110 mm	600	2	A	A5	35.9 mm	C	C1 A2-L2	110 mm	600	3	A	A5	35.9 mm	C	C1 A3-L3	110 mm	600	4	A	A5	35.9 mm	C	C1 A4-L4	110 mm	600
Step	Source			Target			Volume [µl]																																								
	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]																																									
1	A	A5	35.9 mm	C	C1 A1-L1	110 mm	600																																								
2	A	A5	35.9 mm	C	C1 A2-L2	110 mm	600																																								
3	A	A5	35.9 mm	C	C1 A3-L3	110 mm	600																																								
4	A	A5	35.9 mm	C	C1 A4-L4	110 mm	600																																								

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	Fix Single
	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

23 Repeat Dispen...

Step	Description							
	4	A	A6	35.9 mm	C	C1 A8-L8	110 mm	600
	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				Fix Single		
	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		
24 Delay 	Pipetting settings							
Description: Incubation of Buffer AW	Tab	Parameter				Set value		
	Delay	Delay Time Skip Delay by RUN				30 Yes		

Step	Description						
25 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					
26 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					
27 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 A4</td></tr></table>	Tab	Parameter	Set value	Message	Message Line 1 Message Line 2 Message Line 3	Change Reservoir Buffer A4
Tab	Parameter	Set value					
Message	Message Line 1 Message Line 2 Message Line 3	Change Reservoir Buffer A4					
28 Volume Change 	<div><div></div><div></div><div></div><div></div></div>						

Step	Description																																										
29 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 -																																									
30 Repeat Dispense...  Time: 0 min 38 sec Used Tips: 12 Description: 2nd wash (Buffer A4) row 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]																																				
	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																																				
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Pipetting location	Source: Tip Spacing Target: Tip Spacing	Source: 9 mm Target: C1: 9 mm																																									
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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

31 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


32 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><di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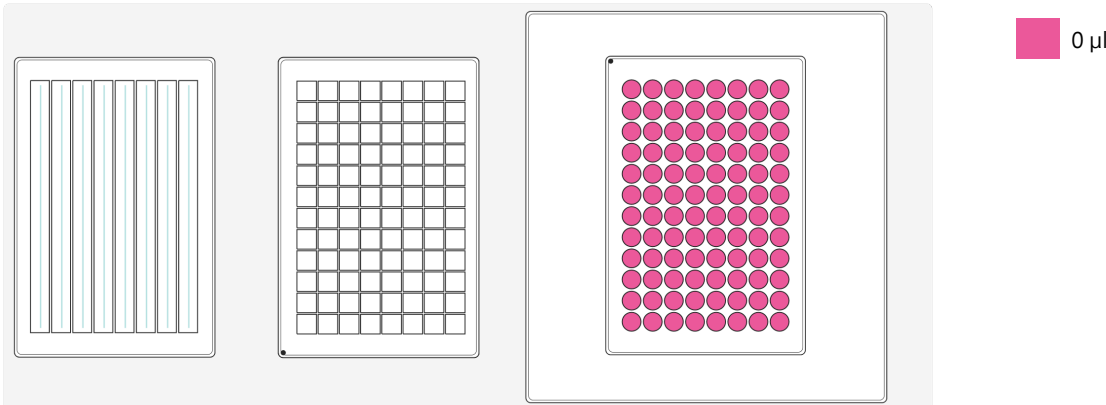


Step	Description		
	Volumes	Volume Dispense Type Air Gap	Fix Single 40 µl
	Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	6 0 4 0 No
	Pipetting Height	Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset	Source: Fix 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

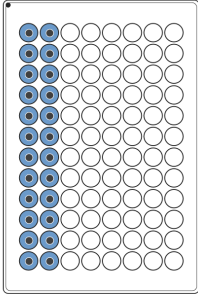
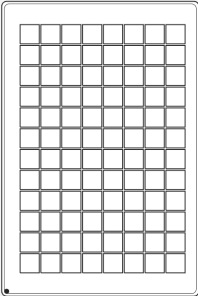
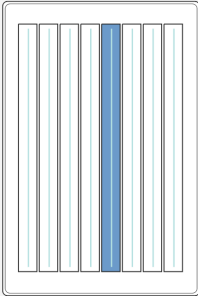
33 Repeat Dispen...

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</

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						
34 Delay 	<div>Pipetting settings</div> <table><tr><td>Tab</td><td>Parameter</td><td>Set value</td></tr><tr><td>Delay</td><td>Delay Time Skip Delay by RUN</td><td>30 Yes</td></tr></table>			Tab	Parameter	Set value	Delay	Delay Time Skip Delay by RUN	30 Yes
Tab	Parameter	Set value							
Delay	Delay Time Skip Delay by RUN	30 Yes							
Description: Incubation of Buffer A4									

Step	Description								
35 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.									
36 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.									
37 Volume Change 	<div></div>								
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>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									
39 Repeat Dispen... 									

Step	Description																																																								
<div>Time: 0 min 38 sec</div> <div>Used Tips: 12</div> <div>Description: 3rd wash (Buffer A4) row 1-2</div>	<div><div></div><div>Summary individual transfers</div><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>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><div>Pipetting settings</div><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><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: C1: Fix No C1: 2 mm</td></tr><tr><td>Tip Change</td><td>Tip Change</td><td>Continue to next step without change</td></tr><tr><td>Mix</td><td>Source: Mixing Target: Mixing</td><td>Source: No Target: No</td></tr><tr><td>Tip Touch</td><td>Tip Touch</td><td>No</td></tr></table></div>		Source			Target				Step	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	Volume [µl]	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	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
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1	A	A5	22 mm	C	C1 A1-L1	110 mm	900																																																		
2	A	A5	22 mm	C	C1 A2-L2	110 mm	900																																																		
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Tip Touch	Tip Touch	No																																																							

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40 Repeat 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41 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>Time: 0 min 29 sec</div> <div>Used Tips: 0</div> <div>Description: 3rd wash (Buffer A4) row 5-6</div>	<div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></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		
	Mix	Source: Mixing Target: Mixing	Source: No Target: No
	Tip Touch	Tip Touch	No





42 Repeat Dispen...




→



Time:
0 min 36 sec
Used Tips:
0

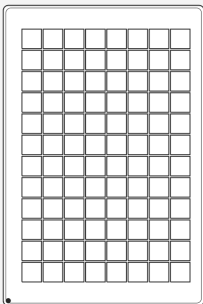
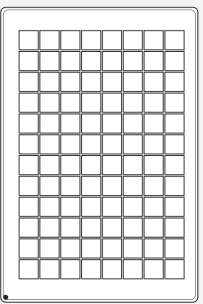
Description:
3rd wash (Buffer
A4) row 7-8



Step	Description		
	Tip Change	Tip Change	After step complete
	Mix	Source: Mixing Target: Mixing	Source: No Target: No
	Tip Touch	Tip Touch	No
43 Delay 	Pipetting settings		
Description: Incubation of Buffer A4	Tab	Parameter	Set value
	Delay	Delay Time Skip Delay by RUN	30 No
44 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
45 Delay 	Pipetting settings		
Description: Allow the buffer to pass the wells.	Tab	Parameter	Set value
	Delay	Delay Time Skip Delay by RUN	60 Yes




Step	Description						
46 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							
47 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>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					
Description: Remove MN Wash Plate and Waste Container from the inside of the vacuum manifold. Empty the waste container.							
48 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>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.							
49 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>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								
50 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 cacuum 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.									
51 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									
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>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		
53 Message 	Pipetting settings		
	Tab	Parameter	Set value
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.	Message	Message Line 1 Message Line 2 Message Line 3	Assemble Vac manifold for elution
54 Message 	Pipetting settings		
	Tab	Parameter	Set value
Description: Change the reservoir to Buffer AE	Message	Message Line 1 Message Line 2 Message Line 3	Change Reservoir Buffer AE

Step	Description																																																																																												
55 Volume Change 	<div><div><div></div> 0 µl <div></div> 15 ml</div></div>																																																																																												
56 Repeat Dispense...  Time: 1 min 36 sec Used Tips: 12 Description: Elute plasmid DNA	<div></div> <div><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><h3>Pipetting settings</h3><table><tr><th>Tab</th><th>Parameter</th><th>Set value</th></tr><tr><td rowspan="2">Pipetting location</td><td>Source: Tip Spacing</td><td>Source: 9 mm</td></tr><tr><td>Target: Tip Spacing</td><td>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></div>	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	Tab	Parameter	Set value	Pipetting location	Source: Tip Spacing	Source: 9 mm	Target: Tip Spacing	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
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																																																																																						
Tab	Parameter	Set value																																																																																											
Pipetting location	Source: Tip Spacing	Source: 9 mm																																																																																											
	Target: Tip Spacing	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																																																																																											

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						
57 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.									
58 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								
59 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.									
60 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									
61 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)	NucleoSpin-96-Plasmid-DNA-Macherey-Nagel.iaa MN Plasmid
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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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