

## Transfer\_from\_cryogenic\_vials Report

Program Name (on pipette)

Cryogenic vials

### User Credentials

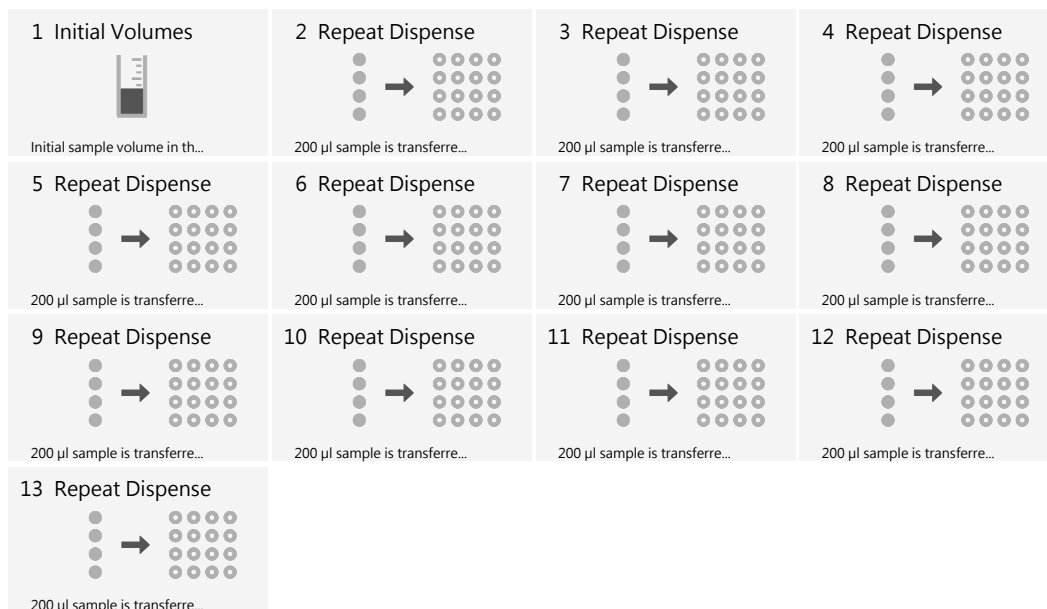
Name: eva.meszaros

Date: 30. Sep. 2021

### Overview Method



VOYAGER -  
300 µl - 8CH



Total Time: 6 min 3 sec

Total Tip Consumption: 96

### Description

Transfer from cryogenic vials

Material:

Pipette: VOYAGER 300 µl 8 CH

A: Rack for cryogenic tubes

B: Rack for cryogenic tubes

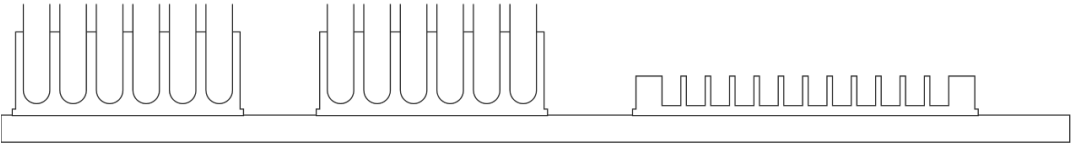
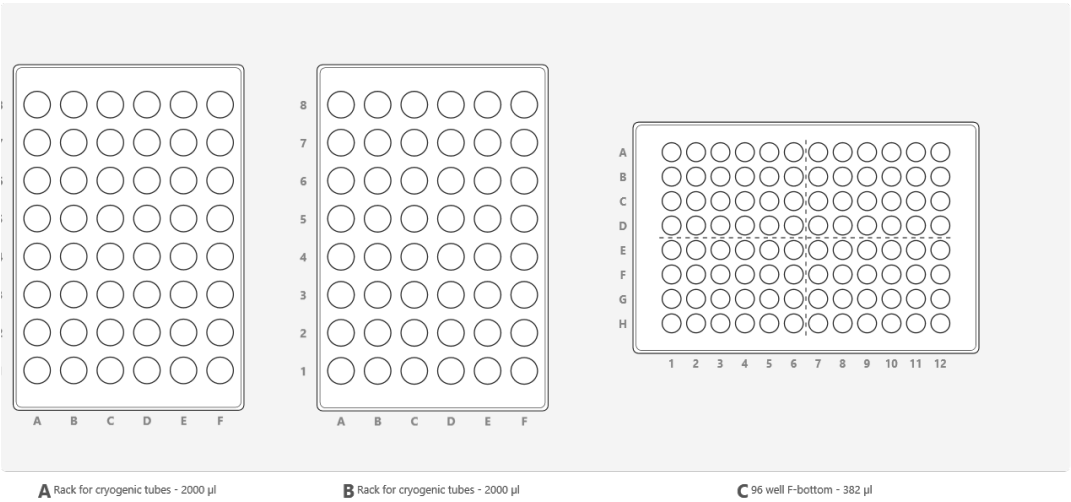
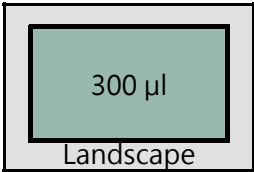
C: 96 well F bottom plate

Method:

01: Initial sample volume in the cryogenic vials is 1.5 ml

02-13: 200 µl sample is transferred from the cryogenic vials (with 15 µl pre- and post-dispense) to the 96 well plate.

Deck Layout




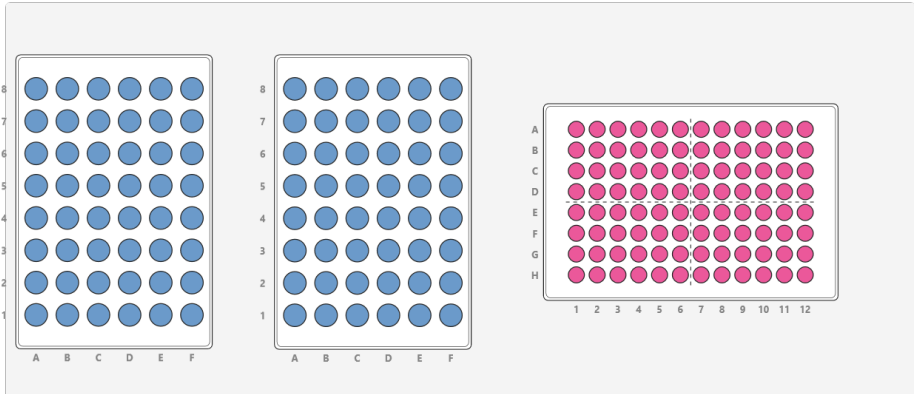
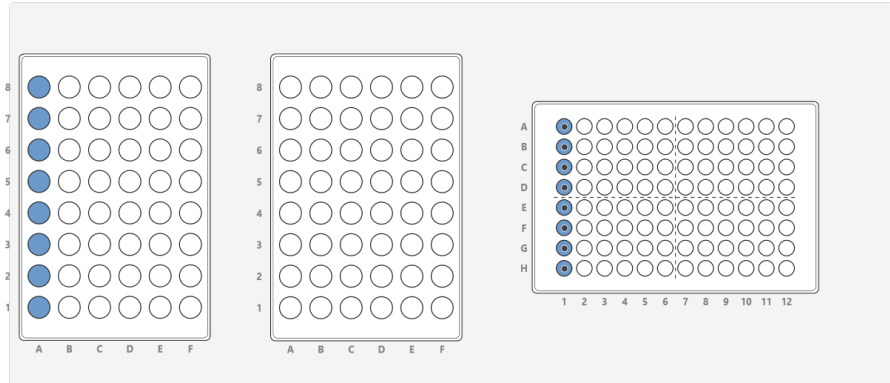
Pipette & Deck

Labware	Name	Manufacturer	Part Number
Pipette	VOYAGER 300µl 8 channels	INTEGRA	4723
Pipette Tip	300 µl GripTip, Sterile, Filter	INTEGRA	6435
Deck	3 Position Universal Deck	INTEGRA	4520

## Deck Labware

Deck Position	Labware	Name	Manufacturer	Part Number	Description
A	Tube Rack	Rack for cryogenic tubes - 2000 $\mu$ l	INTEGRA	4544	6x8 Cryogenic Vials (CORNING) 2 ml, internal thread (PN 430488, 431386) in SLAS/ANSI format
B	Tube Rack	Rack for cryogenic tubes - 2000 $\mu$ l	INTEGRA	4544	6x8 Cryogenic Vials (CORNING) 2 ml, internal thread (PN 430488, 431386) in SLAS/ANSI format
C	Plate	96 well F-bottom - 382 $\mu$ l	GREINER	655161, 655101, 655001, 655061	
D	Waste				


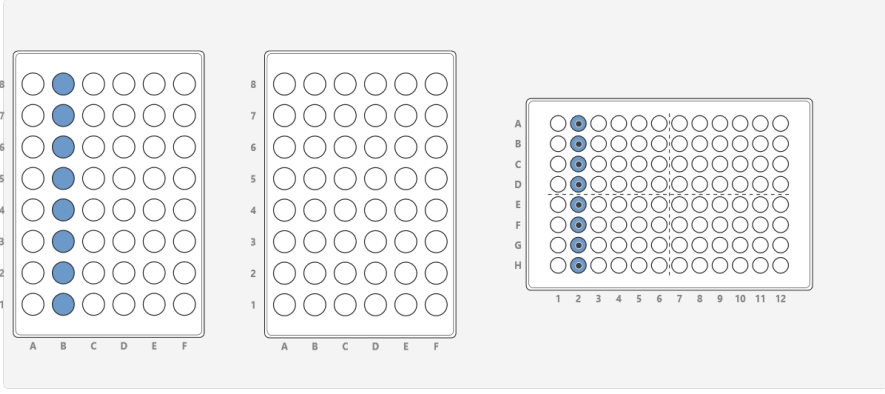
## Method

Step	Description
1 Initial Volum...	<div></div> <div><p><b>Description:</b> Initial sample volume in the cryogenic vials is 1.5 ml.</p></div> <div></div>
2 Repeat Dispen...	<div></div> <div><p><b>Time:</b> 0 min 28 sec</p><p><b>Used Tips:</b> 8</p><p><b>Description:</b> 200 µl sample is transferred from the cryogenic vials from column 1 (with 15 µl pre- and post-dispense) to column 1 of the 96 well plate.</p></div>

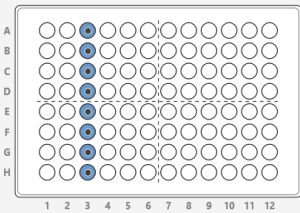
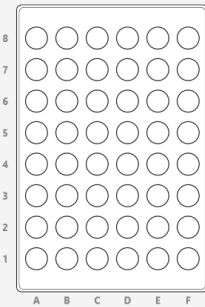
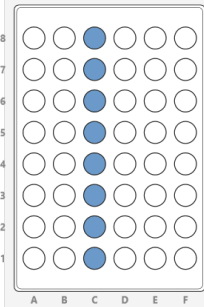
Summary individual transfers

Step	Source			Target			Volume [µl]
	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	
1	A	A8-A1	20 mm	C	A1-H1	5.7 mm	200

Pipetting settings

Step	Description		
	Tab	Parameter	Set value
	Pipetting location	Source: Tip Spacing Target: Tip Spacing	Source: 14 mm Target: 9 mm
	Volumes	Volume Pre-Dispense Post-Dispense Post-Dispense Location Reuse Post-Dispense Dispense Type	Fix 15 µl 15 µl Tip No Single
	Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	8 0 8 0 No
	Pipetting Height	Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset	Source: Fix No 2 mm Target: Fix No 2 mm
	Tip Change	Tip Change	After each dispense
	Mix	Source: Mixing Target: Mixing	Source: No Target: No
	Tip Touch	Tip Touch	No
3 Repeat Dispen...   <b>Time:</b> 0 min 29 sec <b>Used Tips:</b> 8  <b>Description:</b> 200 µl sample is transferred from the cryogenic vials from column 2 (with 15 µl pre- and post-dispense) to column 2 of the 96 well plate.	 <p>Summary individual transfers</p>		


Step	Description							
<div>4 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>Time: 0 min 29 sec Used Tips: 8</div></div></div>		Source			Target			
	Step	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	Volume [μl]
	1	A	B8-B1	20 mm	C	A2-H2	5.7 mm	200
	Pipetting settings							
	Tab		Parameter		Set value			
	Pipetting location		Source: Tip Spacing Target: Tip Spacing		Source: 14 mm Target: 9 mm			
	Volumes		Volume Pre-Dispense Post-Dispense Post-Dispense Location Reuse Post-Dispense Dispense Type		Fix 15 μl 15 μl Tip No Single			
	Pipetting Speeds		Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate		8 0 8 0 No			
	Pipetting Height		Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset		Source: Fix No 2 mm Target: Fix No 2 mm			
	Tip Change		Tip Change		After each dispense			
	Mix		Source: Mixing Target: Mixing		Source: No Target: No			
	Tip Touch		Tip Touch		No			

Step	Description																																																						
<b>Description:</b> 200 µl sample is transferred from the cryogenic vials from column 3 (with 15 µl pre- and post-dispense) to column 3 of the 96 well plate.	<div></div>																																																						
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	<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>C8-C1</td><td>20 mm</td><td>C</td><td>A3-H3</td><td>5.7 mm</td><td>200</td></tr></table>	Step	Source			Target			Volume [µl]	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	1	A	C8-C1	20 mm	C	A3-H3	5.7 mm	200																																
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	Reuse Post-Dispense	No																																																					
	Dispense Type	Single																																																					
Pipetting Speeds	Aspiration Speed	8																																																					
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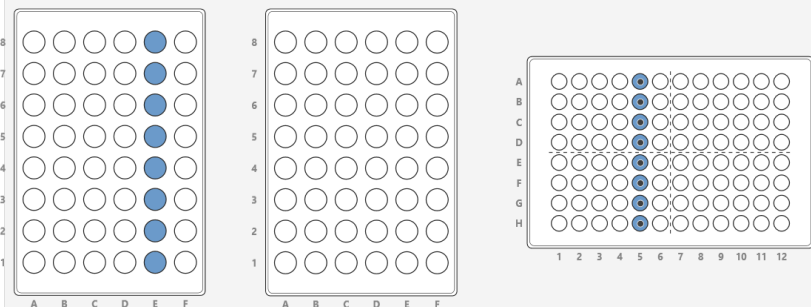
Step	Description		
	Mix	Source: Mixing  Target: Mixing	Source: No  Target: No
	Tip Touch	Tip Touch	No

6 Repeat Dispen...



Time:  
0 min 29 sec  
Used Tips:  
8

Description:  
200 µl sample is transferred from the cryogenic vials from column 5 (with 15 µl pre- and post-dispense) to column 5 of the 96 well plate.



Summary individual transfers

	Source			Target			
Step	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	Volume [µl]
1	A	E8-E1	20 mm	C	A5-H5	5.7 mm	200

Pipetting settings

Tab	Parameter	Set value
Pipetting location	Source: Tip Spacing Target: Tip Spacing	Source: 14 mm Target: 9 mm
Volumes	Volume Pre-Dispense Post-Dispense Post-Dispense Location Reuse Post-Dispense Dispense Type	Fix 15 µl 15 µl Tip No Single
Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	8 0 8 0 No




Step	Description		
	Pipetting Height	Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset	Source: Fix No 2 mm Target: Fix No 2 mm
	Tip Change	Tip Change	After each dispense
	Mix	Source: Mixing  Target: Mixing	Source: No  Target: No
	Tip Touch	Tip Touch	No

7 Repeat Dispen...

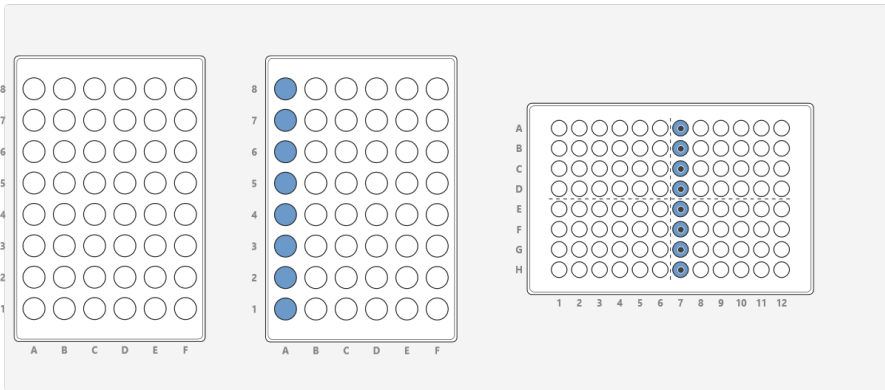
Step	Description		
	Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	8 0 8 0 No
	Pipetting Height	Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset	Source: Fix No 2 mm Target: Fix No 2 mm
	Tip Change	Tip Change	After each dispense
	Mix	Source: Mixing Target: Mixing	Source: No Target: No
	Tip Touch	Tip Touch	No

8 Repeat Dispen...



Time:  
0 min 30 sec  
Used Tips:  
8

Description:  
200 µl sample is transferred from the cryogenic vials from column 1 (with 15 µl pre- and post-dispense) to column 7 of the 96 well 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	A8-A1	20 mm	C	A7-H7	5.7 mm	200

Pipetting settings

Tab	Parameter	Set value
Pipetting location	Source: Tip Spacing Target: Tip Spacing	Source: 14 mm Target: 9 mm

Step	Description		
	Volumes	Volume Pre-Dispense Post-Dispense Post-Dispense Location Reuse Post-Dispense Dispense Type	Fix 15 µl 15 µl Tip No Single
	Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	8 0 8 0 No
	Pipetting Height	Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset	Source: Fix No 2 mm Target: Fix No 2 mm
	Tip Change	Tip Change	After each dispense
	Mix	Source: Mixing  Target: Mixing	Source: No  Target: No
	Tip Touch	Tip Touch	No

9 Repeat Dispen...

Time:  
0 min 30 sec  
Used Tips:  
8

Description:  
200 µl sample is transferred from the cryogenic vials from column 2 (with 15 µl pre- and post-dispense) to column 8 of the 96 well plate.

A B C D E F

A B C D E F


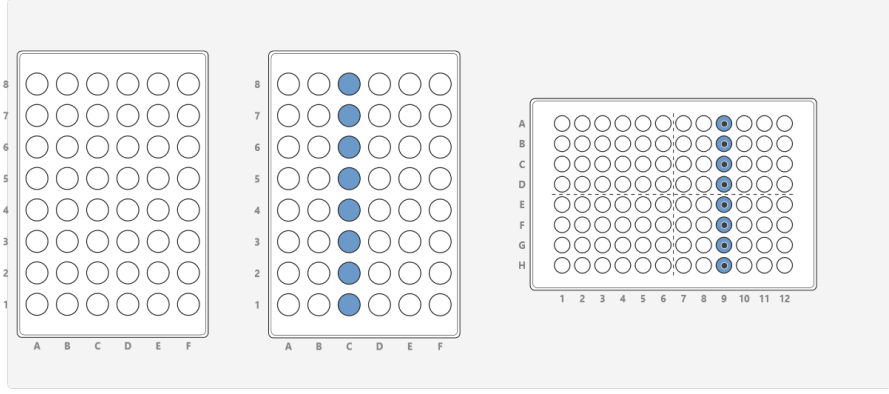
A B C D E F G H

1 2 3 4 5 6 7 8 9 10 11 12

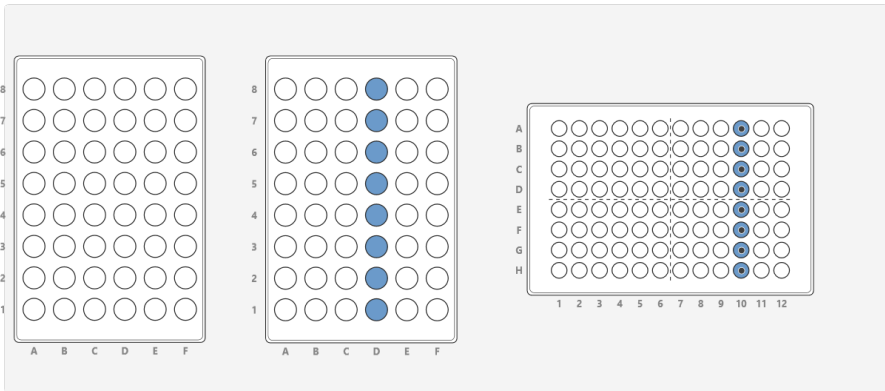
Summary individual transfers

	Source			Target			
Step	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	Volume [µl]
1	B	B8-B1	20 mm	C	A8-H8	5.7 mm	200

Pipetting settings

Step	Description		
	Tab	Parameter	Set value
	Pipetting location	Source: Tip Spacing Target: Tip Spacing	Source: 14 mm Target: 9 mm
	Volumes	Volume Pre-Dispense Post-Dispense Post-Dispense Location Reuse Post-Dispense Dispense Type	Fix 15 µl 15 µl Tip No Single
	Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	8 0 8 0 No
	Pipetting Height	Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset	Source: Fix No 2 mm Target: Fix No 2 mm
	Tip Change	Tip Change	After each dispense
	Mix	Source: Mixing Target: Mixing	Source: No Target: No
	Tip Touch	Tip Touch	No
10 Repeat Dispen...   <b>Time:</b> 0 min 30 sec <b>Used Tips:</b> 8  <b>Description:</b> 200 µl sample is transferred from the cryogenic vials from column 3 (with 15 µl pre- and post-dispense) to column 9 of the 96 well plate.	 <p>Summary individual transfers</p>		

Step	Description							
		Source			Target			
	Step	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	Volume [μl]
	1	B	C8-C1	20 mm	C	A9-H9	5.7 mm	200
	Pipetting settings							
	Tab		Parameter		Set value			
	Pipetting location		Source: Tip Spacing Target: Tip Spacing		Source: 14 mm Target: 9 mm			
	Volumes		Volume Pre-Dispense Post-Dispense Post-Dispense Location Reuse Post-Dispense Dispense Type		Fix 15 μl 15 μl Tip No Single			
	Pipetting Speeds		Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate		8 0 8 0 No			
	Pipetting Height		Source: Heights Tip Travel Safety Bottom Offset Target: Heights Tip Travel Safety Bottom Offset		Source: Fix No 2 mm Target: Fix No 2 mm			
	Tip Change		Tip Change		After each dispense			
	Mix		Source: Mixing Target: Mixing		Source: No Target: No			
	Tip Touch		Tip Touch		No			
11 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>								
Time: 0 min 30 sec Used Tips: 8								

Step	Description																																																					
<p><b>Description:</b> 200 µl sample is transferred from the cryogenic vials from column 4 (with 15 µl pre- and post-dispense) to column 10 of the 96 well plate.</p>																																																						
	<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>B</td><td>D8-D1</td><td>20 mm</td><td>C</td><td>A10-H10</td><td>5.7 mm</td><td>200</td></tr></table>	Step	Source			Target			Volume [µl]	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	1	B	D8-D1	20 mm	C	A10-H10	5.7 mm	200																															
	Step		Source			Target				Volume [µl]																																												
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	1	B	D8-D1	20 mm	C	A10-H10	5.7 mm	200																																														
<p>Pipetting settings</p> <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: 14 mm</td></tr><tr><td>Target: Tip Spacing</td><td>Target: 9 mm</td></tr><tr><td rowspan="5">Volumes</td><td>Volume</td><td>Fix</td></tr><tr><td>Pre-Dispense</td><td>15 µl</td></tr><tr><td>Post-Dispense</td><td>15 µl</td></tr><tr><td>Post-Dispense Location</td><td>Tip</td></tr><tr><td>Reuse Post-Dispense</td><td>No</td></tr><tr><td rowspan="2">Dispense Type</td><td></td><td>Single</td></tr><tr><td>Aspiration Speed</td><td>8</td></tr><tr><td rowspan="5">Pipetting Speeds</td><td>Aspiration Delay</td><td>0</td></tr><tr><td>Dispense Speed</td><td>8</td></tr><tr><td>Dispense Delay</td><td>0</td></tr><tr><td>Aspirate</td><td>No</td></tr><tr><td rowspan="5">Pipetting Height</td><td>Source: Heights</td><td>Source: Fix</td></tr><tr><td>Tip Travel</td><td>No</td></tr><tr><td>Safety Bottom Offset</td><td>2 mm</td></tr><tr><td>Target: Heights</td><td>Target: Fix</td></tr><tr><td>Tip Travel</td><td>No</td></tr><tr><td>Safety Bottom Offset</td><td>2 mm</td></tr><tr><td>Tip Change</td><td>Tip Change</td><td>After each dispense</td></tr><tr><td rowspan="2">Mix</td><td>Source: Mixing</td><td>Source: No</td></tr><tr><td>Target: Mixing</td><td>Target: No</td></tr></table>	Tab	Parameter	Set value	Pipetting location	Source: Tip Spacing	Source: 14 mm	Target: Tip Spacing	Target: 9 mm	Volumes	Volume	Fix	Pre-Dispense	15 µl	Post-Dispense	15 µl	Post-Dispense Location	Tip	Reuse Post-Dispense	No	Dispense Type		Single	Aspiration Speed	8	Pipetting Speeds	Aspiration Delay	0	Dispense Speed	8	Dispense Delay	0	Aspirate	No	Pipetting Height	Source: Heights	Source: Fix	Tip Travel	No	Safety Bottom Offset	2 mm	Target: Heights	Target: Fix	Tip Travel	No	Safety Bottom Offset	2 mm	Tip Change	Tip Change	After each dispense	Mix	Source: Mixing	Source: No	Target: Mixing	Target: No
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Step	Description		
	Mix	Source: Mixing  Target: Mixing	Source: No  Target: No
	Tip Touch	Tip Touch	No

13 Repeat Dispen...

→

Time:  
0 min 29 sec  
Used Tips:  
8

Description:  
200 µl sample is transferred from the cryogenic vials from column 6 (with 15 µl pre- and post-dispense) to column 12 of the 96 well plate.

A

B

C

D

E

F

A

B

C

D

E

F

A

B

C

D

E

F

G

H

1

2

3

4

5

6

7

8

1

2

3

4

5

6

7

8

9

10

11

12

Summary individual transfers

Step	Source			Target			Volume [µl]
	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	
1	B	F8-F1	20 mm	C	A12-H12	5.7 mm	200

Pipetting settings

Tab	Parameter	Set value
Pipetting location	Source: Tip Spacing	Source: 14 mm
	Target: Tip Spacing	Target: 9 mm
Volumes	Volume	Fix
	Pre-Dispense	15 µl
	Post-Dispense	15 µl
	Post-Dispense Location	Tip
	Reuse Post-Dispense	No
Pipetting Speeds	Dispense Type	Single
	Aspiration Speed	8
	Aspiration Delay	0
	Dispense Speed	8
	Dispense Delay	0
	Aspirate	No



Step	Description		
	Pipetting Height	<b>Source:</b> Heights Tip Travel Safety Bottom Offset <b>Target:</b> Heights Tip Travel Safety Bottom Offset	<b>Source:</b> Fix No 2 mm <b>Target:</b> Fix No 2 mm
	Tip Change	Tip Change	After each dispense
	Mix	<b>Source:</b> Mixing <b>Target:</b> Mixing	<b>Source:</b> No <b>Target:</b> No
	Tip Touch	Tip Touch	No

## Run Protocol

Program Name Program Name (on pipette)	Transfer_from_cryogenic_vials.iaa Cryogenic vials
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Instrument - Serial Number ASSIST PLUS	
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Pipette - Serial Number VOYAGER - 300µl - 8CH	
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Pipette Tips - Lot Number 300 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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