

## Dilute\_samples\_with\_methanol Report

**INTEGRA**  
VIALAB

Program Name (on pipette)

Methanol\_dilute

### User Credentials

Name: rebecca.bodmer

Date: 2. Mar. 2023

### Overview Method



D-ONE -  
1,250µl - 1CH

#### 1 Initial Volumes



01: Initial Volume for meth...

#### 2 Worklist

1			
2			
3			

02: Methanol distribution w...

#### 3 Worklist

1			
2			
3			

03: Sample dilution with wo...

#### 4 Message



04: Sample dilution finishe...

Total Time: 31 min 57 sec

Total Tip Consumption: Tip 125µl: 24  
Tip 1250µl: 1

### Description

Sample dilution with methanol

Material:

Pipette: D-ONE 5/1250 µl 1 CH

A: 25 ml reagent reservoir

B: Rack for 1.5 ml microcentrifuge tubes

C: Rack for 2 ml HPLC vials

Method:

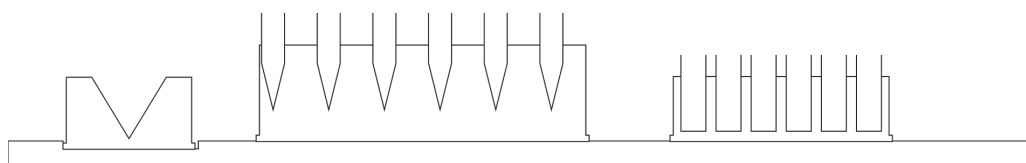
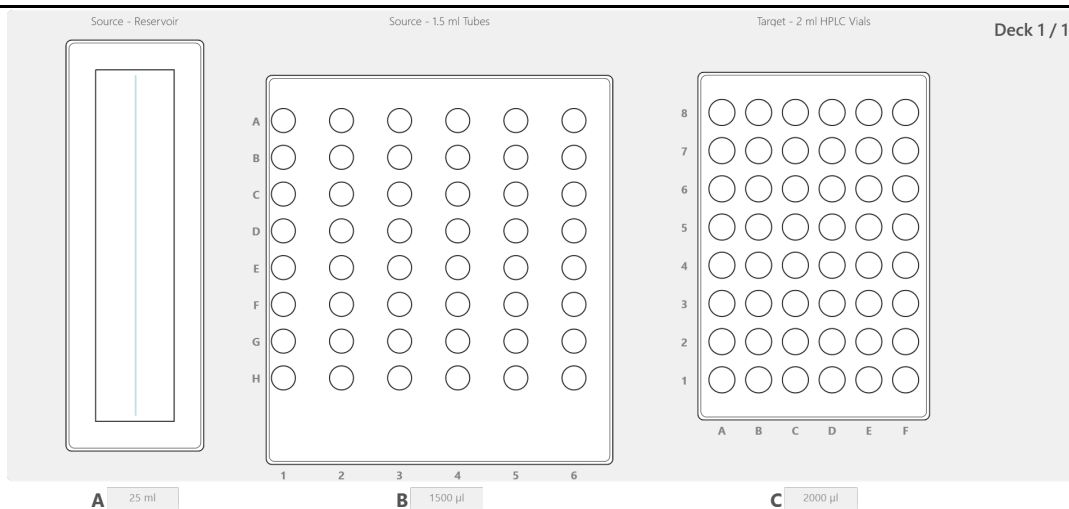
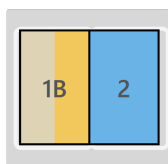
01: Initial Volume for methanol.

02: Methanol distribution with worklist\_diluent.csv.

03: Sample dilution with worklist\_sample.csv.

04: Sample dilution finished.

### Deck Layout



## Pipette & Deck

Labware	Name	Manufacturer	Part Number
Pipette	D-ONE 5 - 1,250 µl 1 channel	INTEGRA	4532
Pipette Tip	50/125 µl GripTip, Sterile, Filter, Low retention	INTEGRA	6565
Pipette Tip	1250 µl GripTip, Sterile, Filter	INTEGRA	6445
Deck	3 Position Universal Deck	INTEGRA	4520

## Deck Labware

Deck Position	Labware	Name	Manufacturer	Part Number	Description
A	Reservoir	Multichannel Reservoir - 25 ml	INTEGRA	4310, 4311, 4312, 4315, 4316, 4317, 4380, 4381, 4382	Polystyrene or Polypropylene
B	Tube Rack	Rack for 1.5 ml microcentrifuge tubes - 1500 µl	INTEGRA	4540	6x8 1.5 ml microcentrifuge tubes
C	Tube Rack	Rack for HPLC Vials 2 ml - 2000 µl	INTEGRA	4545	6x8 HPLC Vials, 2 ml, various suppliers
D	Waste				

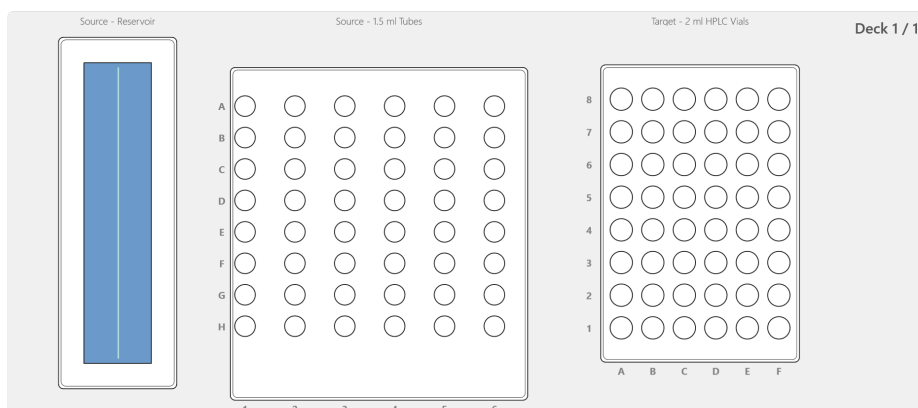
## Method

### 1 Initial Volumes



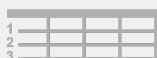
#### Description:

01: Initial Volume for methanol.



25 ml

### 2 Worklist



#### Time:

7 min 23 sec

#### Used Tips:

Tip 1250µl: 1

#### Description:

02: Methanol distribution with worklist\_diluent.csv.

## Worklist

	Use	Sample ID	Source		Target		Vol. Sample [µl]
			Deck Position	Source	Target	Deck Position	
1	<input checked="" type="checkbox"/>	1.1	A	A1	C	A8	990
2	<input checked="" type="checkbox"/>	1.2	A	A1	C	B8	990
3	<input checked="" type="checkbox"/>	1.3	A	A1	C	C8	990

4	<input checked="" type="checkbox"/>	2.1	A	A1	C	A7	995
5	<input checked="" type="checkbox"/>	2.2	A	A1	C	B7	995
6	<input checked="" type="checkbox"/>	2.3	A	A1	C	C7	995
7	<input checked="" type="checkbox"/>	3.1	A	A1	C	A6	980
8	<input checked="" type="checkbox"/>	3.2	A	A1	C	B6	980
9	<input checked="" type="checkbox"/>	3.3	A	A1	C	C6	980
10	<input checked="" type="checkbox"/>	4.1	A	A1	C	A5	970
11	<input checked="" type="checkbox"/>	4.2	A	A1	C	B5	970
12	<input checked="" type="checkbox"/>	4.3	A	A1	C	C5	970
13	<input checked="" type="checkbox"/>	5.1	A	A1	C	A4	975
14	<input checked="" type="checkbox"/>	5.2	A	A1	C	B4	975
15	<input checked="" type="checkbox"/>	5.3	A	A1	C	C4	975
16	<input checked="" type="checkbox"/>	6.1	A	A1	C	A3	990
17	<input checked="" type="checkbox"/>	6.2	A	A1	C	B3	990
18	<input checked="" type="checkbox"/>	6.3	A	A1	C	C3	990
19	<input checked="" type="checkbox"/>	7.1	A	A1	C	A2	985
20	<input checked="" type="checkbox"/>	7.2	A	A1	C	B2	985
21	<input checked="" type="checkbox"/>	7.3	A	A1	C	C2	985
22	<input checked="" type="checkbox"/>	8.1	A	A1	C	A1	995
23	<input checked="" type="checkbox"/>	8.2	A	A1	C	B1	995
24	<input checked="" type="checkbox"/>	8.3	A	A1	C	C1	995

### Summary individual transfers

Step	Source			Target			Volume [μl]
	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	
1	A	-	10.6 mm	C	A8	5.9 mm	990
2	A	-	10.2 mm	C	B8	5.9 mm	990
3	A	-	9.8 mm	C	C8	5.9 mm	990
4	A	-	9.4 mm	C	A7	5.9 mm	995
5	A	-	9 mm	C	B7	5.9 mm	995
6	A	-	8.6 mm	C	C7	5.9 mm	995
7	A	-	8.1 mm	C	A6	5.9 mm	980
8	A	-	7.7 mm	C	B6	5.9 mm	980
9	A	-	7.3 mm	C	C6	5.9 mm	980
10	A	-	6.9 mm	C	A5	5.9 mm	970
11	A	-	6.5 mm	C	B5	5.9 mm	970
12	A	-	6.1 mm	C	C5	5.9 mm	970
13	A	-	5.7 mm	C	A4	5.9 mm	975
14	A	-	5.3 mm	C	B4	5.9 mm	975
15	A	-	4.9 mm	C	C4	5.9 mm	975
16	A	-	4.3 mm	C	A3	5.9 mm	990
17	A	-	3.7 mm	C	B3	5.9 mm	990
18	A	-	3.1 mm	C	C3	5.9 mm	990
19	A	-	3.1 mm	C	A2	5.9 mm	985
20	A	-	3.1 mm	C	B2	5.9 mm	985
21	A	-	3.1 mm	C	C2	5.9 mm	985
22	A	-	3.1 mm	C	A1	5.9 mm	995
23	A	-	3.1 mm	C	B1	5.9 mm	995
24	A	-	3.1 mm	C	C1	5.9 mm	995

## Pipetting settings

Tab	Parameter	Set value
Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed  Dispense Delay Exit Liquid Slowly Aspirate Dispense	Tip 125µl: 10 Tip 1250µl: 10 0 Tip 125µl: 5 Tip 1250µl: 5 1  No Yes
Pipetting Height	<b>Source:</b> Heights Tip Travel Safety Bottom Offset  <b>Target:</b> Heights Tip Travel Safety Bottom Offset	<b>Source:</b> A: Fix Yes A: Tip 125µl: 2 mm Tip 1250µl: 2 mm  <b>Target:</b> C: Fix Yes C: Tip 125µl: 2 mm Tip 1250µl: 2 mm
Tip Change	Tip Change	Continue to next step without change
Tip Touch	Tip Touch Type of Tip Touch Tip Touch Distance Tip Touch Height	Yes C: Side C: 4.3 mm C: 31.3 mm

3 Worklist

1			
2			
3			

**Time:**  
24 min 28 sec  
**Used Tips:**  
Tip 125µl: 24

**Description:**  
03: Sample dilution with worklist\_sample.csv.

## Worklist

	Use	Sample ID	Source		Target		Vol. Sample [µl]
			Deck Position	Source	Target	Deck Position	
1	<input checked="" type="checkbox"/>	1.1	B	A1	C	A8	10
2	<input checked="" type="checkbox"/>	1.2	B	A1	C	B8	10
3	<input checked="" type="checkbox"/>	1.3	B	A1	C	C8	10
4	<input checked="" type="checkbox"/>	2.1	B	B1	C	A7	5
5	<input checked="" type="checkbox"/>	2.2	B	B1	C	B7	5
6	<input checked="" type="checkbox"/>	2.3	B	B1	C	C7	5
7	<input checked="" type="checkbox"/>	3.1	B	C1	C	A6	20
8	<input checked="" type="checkbox"/>	3.2	B	C1	C	B6	20

9	<input checked="" type="checkbox"/>	3.3	B	C1	C	C6	20
10	<input checked="" type="checkbox"/>	4.1	B	D1	C	A5	30
11	<input checked="" type="checkbox"/>	4.2	B	D1	C	B5	30
12	<input checked="" type="checkbox"/>	4.3	B	D1	C	C5	30
13	<input checked="" type="checkbox"/>	5.1	B	E1	C	A4	25
14	<input checked="" type="checkbox"/>	5.2	B	E1	C	B4	25
15	<input checked="" type="checkbox"/>	5.3	B	E1	C	C4	25
16	<input checked="" type="checkbox"/>	6.1	B	F1	C	A3	10
17	<input checked="" type="checkbox"/>	6.2	B	F1	C	B3	10
18	<input checked="" type="checkbox"/>	6.3	B	F1	C	C3	10
19	<input checked="" type="checkbox"/>	7.1	B	G1	C	A2	15
20	<input checked="" type="checkbox"/>	7.2	B	G1	C	B2	15
21	<input checked="" type="checkbox"/>	7.3	B	G1	C	C2	15
22	<input checked="" type="checkbox"/>	8.1	B	H1	C	A1	5
23	<input checked="" type="checkbox"/>	8.2	B	H1	C	B1	5
24	<input checked="" type="checkbox"/>	8.3	B	H1	C	C1	5

## Summary individual transfers

Step	Source			Target			Volume [μl]
	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	
1	B	A1	46.5 mm	C	A8	15 mm	10
2	B	A1	46.4 mm	C	B8	15 mm	10
3	B	A1	46.2 mm	C	C8	15 mm	10
4	B	B1	46.5 mm	C	A7	15 mm	5
5	B	B1	46.4 mm	C	B7	15 mm	5
6	B	B1	46.4 mm	C	C7	15 mm	5
7	B	C1	46.5 mm	C	A6	15 mm	20
8	B	C1	46.2 mm	C	B6	15 mm	20
9	B	C1	45.9 mm	C	C6	15 mm	20
10	B	D1	46.5 mm	C	A5	15 mm	30
11	B	D1	46 mm	C	B5	15 mm	30
12	B	D1	45.5 mm	C	C5	15 mm	30
13	B	E1	46.5 mm	C	A4	15 mm	25
14	B	E1	46.1 mm	C	B4	15 mm	25
15	B	E1	45.7 mm	C	C4	15 mm	25
16	B	F1	46.5 mm	C	A3	15 mm	10
17	B	F1	46.4 mm	C	B3	15 mm	10
18	B	F1	46.2 mm	C	C3	15 mm	10
19	B	G1	46.5 mm	C	A2	15 mm	15
20	B	G1	46.3 mm	C	B2	15 mm	15
21	B	G1	46 mm	C	C2	15 mm	15
22	B	H1	46.5 mm	C	A1	15 mm	5
23	B	H1	46.4 mm	C	B1	15 mm	5
24	B	H1	46.4 mm	C	C1	15 mm	5



## Pipetting settings

Tab	Parameter	Set value
Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Exit Liquid Slowly Aspirate Dispense	Tip 125µl: 6 Tip 1250µl: 6 1 Tip 125µl: 6 Tip 1250µl: 6 1 No No
Pipetting Height	<b>Source:</b> Heights Tip Travel Safety Bottom Offset  <b>Target:</b> Heights Tip Travel Safety Bottom Offset	<b>Source:</b> B: Fix Yes B: Tip 125µl: 2 mm Tip 1250µl: 2 mm  <b>Target:</b> C: Fix Yes C: Tip 125µl: 2 mm Tip 1250µl: 2 mm
Tip Change	Tip Change	After step complete
Tip Touch	Tip Touch Type of Tip Touch Tip Touch Distance Tip Touch Height	Yes C: Side C: 4.3 mm C: 31.3 mm
LLD Settings	Liquid Level Detection If no liquid detected Submerge depth	Yes Ask user B: 2mm

## Mix Summary

## Mix Target

Target				
Step	Deck Position	Well Positions	Start Height [mm]	Volume [µl]
1	C	A8	8.1 mm	125
2	C	B8	8.1 mm	125
3	C	C8	8.1 mm	125
4	C	A7	8.1 mm	125
5	C	B7	8.1 mm	125
6	C	C7	8.1 mm	125
7	C	A6	8.1 mm	125
8	C	B6	8.1 mm	125
9	C	C6	8.1 mm	125
10	C	A5	8.1 mm	125
11	C	B5	8.1 mm	125
12	C	C5	8.1 mm	125
13	C	A4	8.1 mm	125
14	C	B4	8.1 mm	125
15	C	C4	8.1 mm	125
16	C	A3	8.1 mm	125
17	C	B3	8.1 mm	125
18	C	C3	8.1 mm	125
19	C	A2	8.1 mm	125
20	C	B2	8.1 mm	125
21	C	C2	8.1 mm	125
22	C	A1	8.1 mm	125
23	C	B1	8.1 mm	125
24	C	C1	8.1 mm	125

Tab	Parameter	Set value
Mix	<b>Source:</b> Mixing  <b>Target:</b> Mixing Mix Cycles Mix Speed  Tip Travel	<b>Source:</b> No  <b>Target:</b> Yes 5 Tip 125µl: 6 Tip 1250µl: 8 No

4 Message



**Description:**

04: Sample dilution finished.

Pipetting settings

Tab	Parameter	Set value
Message	Message Line 1 Message Line 2 Message Line 3	Sample dilution finished

## Run Protocol

Program Name Program Name (on pipette)	Dilute_samples_with_methanol.iaa Methanol_dilute
Instrument - Serial Number ASSIST PLUS	
Pipette - Serial Number D-ONE - 1,250µl - 1CH	
Pipette Tips - Lot Number 1250 µl GripTip, Sterile, Filter	
Notes:	
Run Operator:	
Run Date:	
Run Start Time:	
Run End Time:	
Signature:	