Arcis-DNA-Extraction Report

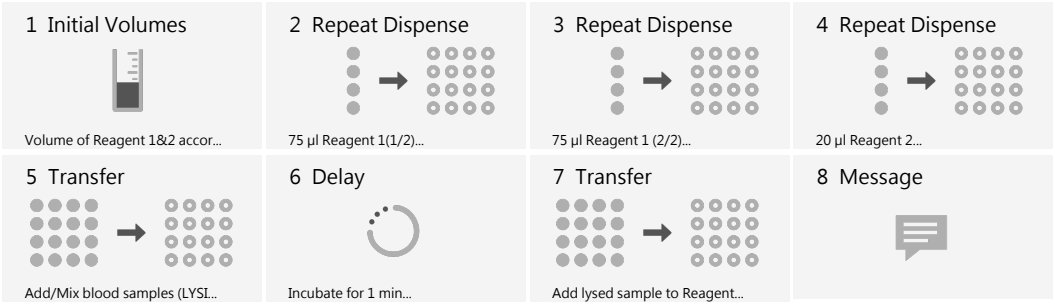
Program Name (on pipette)
ARCIS_KIT

User Credentials

Name: sst
Date: 15. Apr. 2020

Overview Method

VOYAGER - 125µl - 8CH

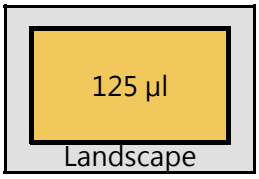


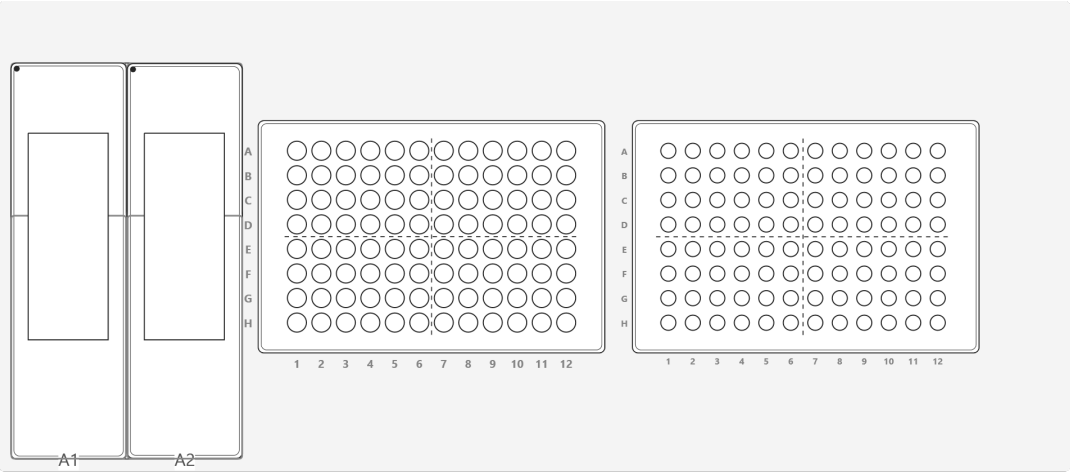
Total Time: 23 min 3 sec
Total Tip Consumption: 112

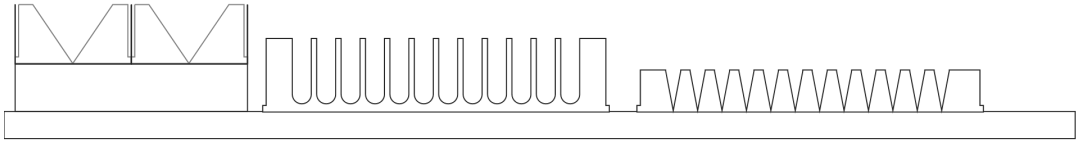
Description

The Arcis Sample Prep Kit is used to isolate DNA from whole blood samples.

Deck Layout







Pipette & Deck

Labware	Name	Manufacturer	Part Number
Pipette	VOYAGER 125µl 8 channels	INTEGRA	4722
Pipette Tip	50/125 µl GripTip, Non-sterile	INTEGRA	6463
Deck	3 Position Universal Deck	INTEGRA	4520

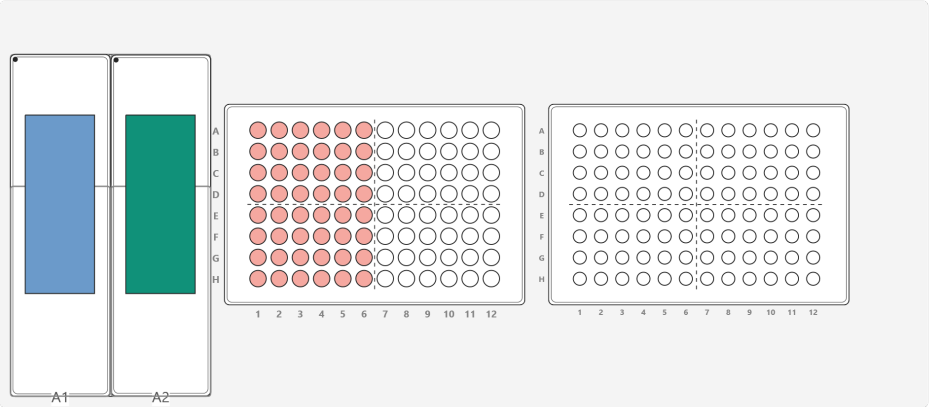
Deck Labware

Deck Position	Labware	Name	Manufacturer	Part Number	Description
A	COMBI System	Dual Reservoir Adapter		4547	- compatible with 10 ml Multichannel Reagent Reservoirs 25 ml Multichannel Reagent Reservoirs Divided Reagent Reservoirs - holds up to 2 reservoirs (of the same or different type)
	A1	10 ml Multichannel Reagent Reservoir (Insert)	INTEGRA	4330, 4331, 4332, 4335, 4336, 4337, 4370, 4371, 4372	Polystyrene or Polypropylene use with Dual Reservoir Adapter (PN 4547) only
	A2	10 ml Multichannel Reagent Reservoir (Insert)	INTEGRA	4330, 4331, 4332, 4335, 4336, 4337, 4370, 4371, 4372	Polystyrene or Polypropylene use with Dual Reservoir Adapter (PN 4547) only
B	Plate	96 Deepwell - 700 µl	EPPENDORF	0030 501.101, 0030 501.110, 0030 501.136, 0030 501.144, 0030 502.108, 0030 502.116, 0030 502.132, 0030 502.140, 0030 503.104, 0030 503.147, 0030 504.100, 0030 504.119, 0030 507.100 0030 505.107, 0030 506.103	
C	Plate	96 well PCR Sapphire - 200 µl	GREINER	652270	
D	Waste				

Method

Step	Description
1 Initial Volum...	

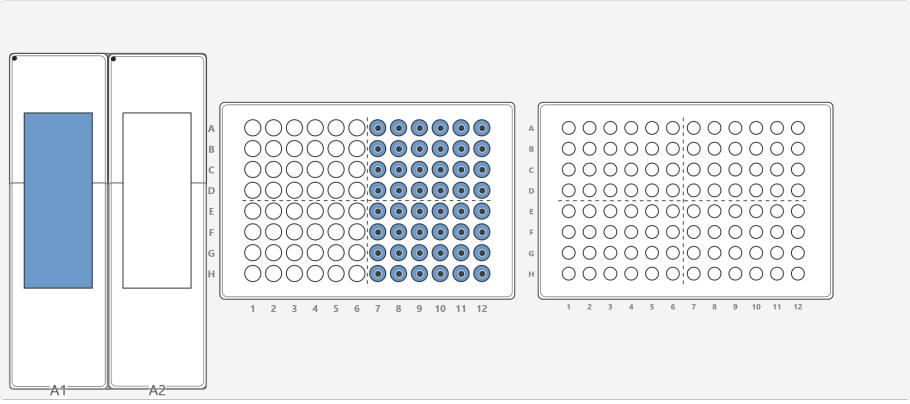
Description:
Volume of Reagent 1&2 according to the amount of samples being processed



2 Repeat Dispen...

Time:
4 min 6 sec
Used Tips:
8

Description:
75 µl Reagent 1 (1/2)
Use the repeat dispense to transfer Reagent 1 into the left 48 wells of the 96 deep well plate (Position B).
Total volume needed: 150 µl per well



Summary individual transfers

	Source			Target			
Step	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	Volume [µl]
1	A	A1	17.7 mm	B	A7-H7	5 mm	75
2	A	A1	17.7 mm	B	A8-H8	5 mm	75
3	A	A1	17.7 mm	B	A9-H9	5 mm	75
4	A	A1	17.7 mm	B	A10-H10	5 mm	75
5	A	A1	17.7 mm	B	A11-H11	5 mm	75
6	A	A1	17.7 mm	B	A12-H12	5 mm	75

Pipetting settings

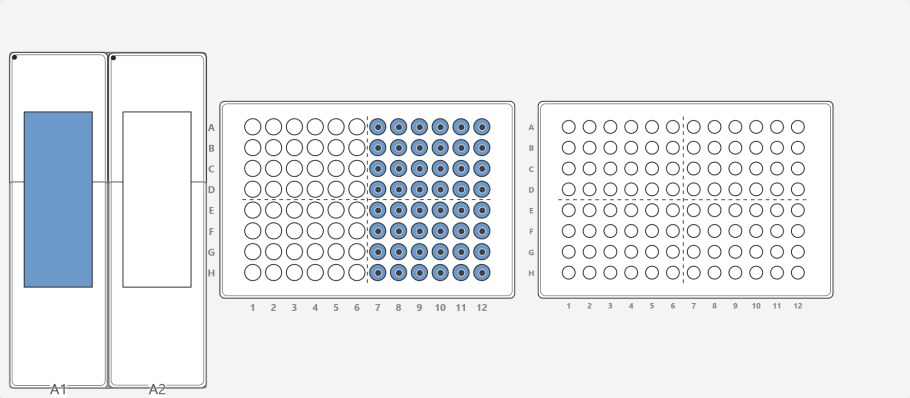
Tab	Parameter	Set value
Pipetting location	**Source:** Tip Spacing **Target:** Tip Spacing	**Source:** A1: 4.5 mm **Target:** 9 mm
Volumes	Volume Dispense Type	Fix Single
Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	1 0 1 0 No

Step	Description		
	Pipetting Height	**Source:** Heights Tip Travel Safety Bottom Offset **Target:** Heights Tip Travel Safety Bottom Offset	**Source:** A1: Variable No A1: 0 mm **Target:** Fix Yes 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 Type of Tip Touch Tip Touch Height	Yes Liquid 6.1 mm

3 Repeat Dispen...

Time:
4 min 6 sec
Used Tips:
0

Description:
75 µl Reagent 1 (2/2)
Use repeat dispense to transfer Reagent 1 again into the left 48 wells of the 96 deep well plate (Position B).
Total volume needed: 150 µl per well



Summary individual transfers

	Source			Target			
Step	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	Volume [µl]
1	A	A1	17.7 mm	B	A7-H7	5.9 mm	75
2	A	A1	17.7 mm	B	A8-H8	5.9 mm	75
3	A	A1	17.7 mm	B	A9-H9	5.9 mm	75
4	A	A1	17.7 mm	B	A10-H10	5.9 mm	75
5	A	A1	17.7 mm	B	A11-H11	5.9 mm	75
6	A	A1	17.7 mm	B	A12-H12	5.9 mm	75

Pipetting settings

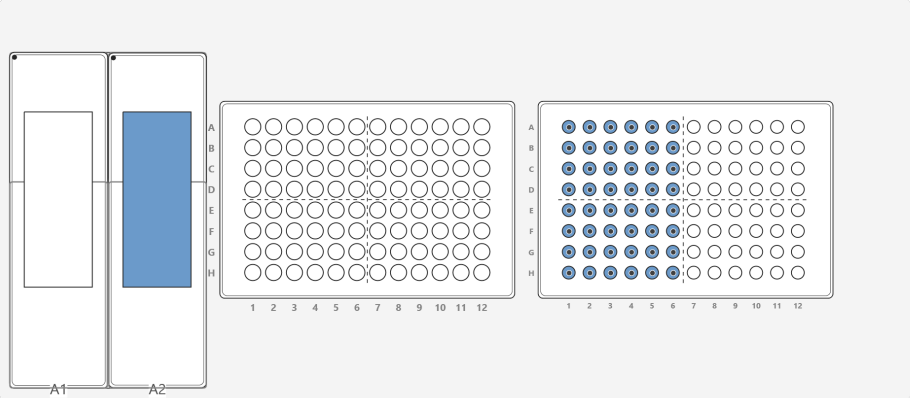
Tab	Parameter	Set value
Pipetting location	**Source:** Tip Spacing **Target:** Tip Spacing	**Source:** A1: 4.5 mm **Target:** 9 mm
Volumes	Volume Dispense Type	Fix Single

Step	Description		
	Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	1 0 1 0 No
	Pipetting Height	**Source:** Heights Tip Travel Safety Bottom Offset **Target:** Heights Tip Travel Safety Bottom Offset	**Source:** A1: Variable No A1: 0 mm **Target:** Fix Yes 2 mm
	Tip Change	Tip Change	After step complete
	Mix	**Source:** Mixing **Target:** Mixing	**Source:** No **Target:** No
	Tip Touch	Tip Touch Type of Tip Touch Tip Touch Height	Yes Liquid 8 mm

4 Repeat Dispen...

Time:
1 min 29 sec
Used Tips:
8

Description:
20 µl Reagent 2
Use repeat dispense to transfer wash buffer into the left 48 wells of the 96 well PCR plate (Positon C).



Summary individual transfers

	Source			Target			
Step	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	Volume [µl]
1	A	A2	17.7 mm	C	A1-H1	2.5 mm	20
2	A	A2	17.7 mm	C	A2-H2	2.5 mm	20
3	A	A2	17.7 mm	C	A3-H3	2.5 mm	20
4	A	A2	17.7 mm	C	A4-H4	2.5 mm	20
5	A	A2	17.7 mm	C	A5-H5	2.5 mm	20
6	A	A2	17.7 mm	C	A6-H6	2.5 mm	20

Pipetting settings

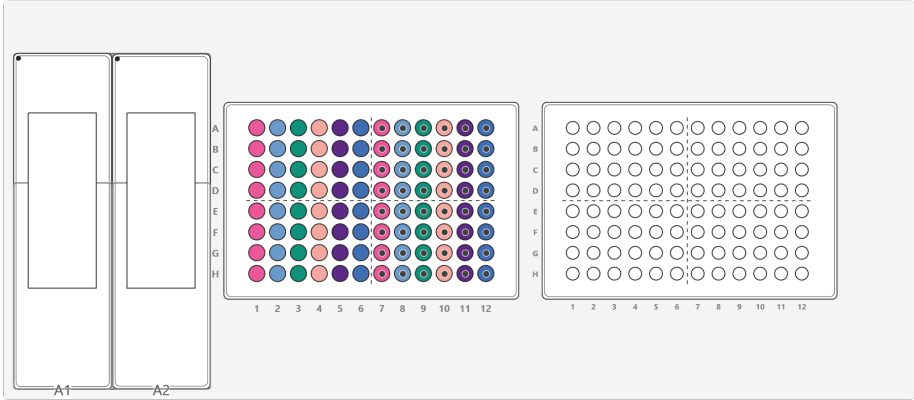
Step	Description

Tab	Parameter	Set value
Pipetting location	**Source:** Tip Spacing **Target:** Tip Spacing	**Source:** A2: 4.5 mm **Target:** 9 mm
Volumes	Volume Dispense Type	Fix Multi
Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	1 0 1 0 No
Pipetting Height	**Source:** Heights Tip Travel Safety Bottom Offset **Target:** Heights Tip Travel Safety Bottom Offset	**Source:** A2: Variable No A2: 0 mm **Target:** Fix No 2 mm
Tip Change	Tip Change	After step complete
Mix	**Source:** Mixing **Target:** Mixing	**Source:** No **Target:** No
Tip Touch	Tip Touch Type of Tip Touch Tip Touch Height	Yes Liquid 8.1 mm

5 Transfer

Time:
9 min 23 sec
Used Tips:
48

Description:
Add/Mix blood samples (LYSIS) Transfer the blood samples from the left side of the 96 deep well plate onto the left half of the plate to Reagent 1



Summary individual transfers

	Source			Target			
Step	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	Volume [µl]
1	B	A1-H1	5 mm	B	A7-H7	5.1 mm	90
2	B	A2-H2	5 mm	B	A8-H8	5 mm	90

Step	Description

3	B	A3-H3	5 mm	B	A9-H9	5 mm	90
4	B	A4-H4	5 mm	B	A10-H10	5 mm	90
5	B	A5-H5	5 mm	B	A11-H11	5 mm	90
6	B	A6-H6	5 mm	B	A12-H12	5 mm	90

Pipetting settings

Tab	Parameter	Set value
Pipetting location	**Source:** Tip Spacing **Target:** Tip Spacing	**Source:** 9 mm **Target:** 9 mm
Volumes	Volume	Fix
Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	3 0 3 0 No
Pipetting Height	**Source:** Heights Tip Travel Safety Bottom Offset **Target:** Heights Tip Travel Safety Bottom Offset	**Source:** Variable Yes 2 mm **Target:** Variable Yes 2 mm
Tip Change	Tip Change	After each transfer
Mix	**Source:** Mixing Mix Volume Mix Cycles Mix Speed Tip Travel Start Height **Target:** Mixing Mix Volume Mix Cycles Mix Speed Tip Travel Start Height	**Source:** Yes 75 µl 5 5 Yes 6.3 mm **Target:** Yes 125 µl 5 5 Yes 8.3 mm
Tip Touch	Tip Touch Type of Tip Touch Tip Touch Height	Yes Liquid 10.1 mm

Step	Description

6 Delay

Description:
Incubate for 1 min

Apply a delay only if the processing time in step 5 is less than 1 minute. Adapt the delay time to allow each sample to incubate for 1 minute.

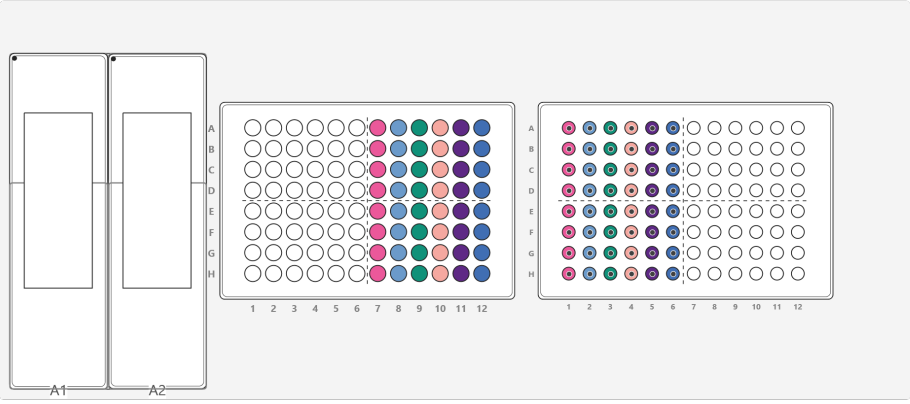
Pipetting settings

Tab	Parameter	Set value
Delay	Delay Time Skip Delay by RUN	1 No

7 Transfer

Time:
3 min 51 sec
Used Tips:
48

Description:
Add lysed sample to Reagent 2 (WASH)
Transfer 5 µl of blood sample/Reagent 1 mix to Reagent 2 (Position C)



Summary individual transfers

	Source			Target			
Step	Deck Position	Well Positions	Start Height [mm]	Deck Position	Well Positions	Start Height [mm]	Volume [µl]
1	B	A7-H7	6 mm	C	A1-H1	3.1 mm	5
2	B	A8-H8	6 mm	C	A2-H2	3.1 mm	5
3	B	A9-H9	6 mm	C	A3-H3	3.1 mm	5
4	B	A10-H10	6 mm	C	A4-H4	3.1 mm	5
5	B	A11-H11	6 mm	C	A5-H5	3.1 mm	5
6	B	A12-H12	6 mm	C	A6-H6	3.1 mm	5

Pipetting settings

Tab	Parameter	Set value
Pipetting location	**Source:** Tip Spacing **Target:** Tip Spacing	**Source:** 9 mm **Target:** 9 mm
Volumes	Volume	Fix
Pipetting Speeds	Aspiration Speed Aspiration Delay Dispense Speed Dispense Delay Aspirate	1 2 2 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 Yes 2 mm
	Tip Change	Tip Change	After each transfer
	Mix	**Source:** Mixing **Target:** Mixing Mix Volume Mix Cycles Mix Speed Tip Travel Start Height	**Source:** No **Target:** Yes 15 µl 5 3 Yes 3.9 mm
	Tip Touch	Tip Touch Type of Tip Touch Tip Touch Height	Yes Liquid 9 mm
8 Message			

Pipetting settings

Tab	Parameter	Set value
Message	Message Line 1 Message Line 2 Message Line 3	Use samples immediately or freeze

Run Protocol

Program Name Program Name (on pipette)	Arcis-DNA-Extraction.iaa ARCIS_KIT
Instrument - Serial Number ASSIST PLUS	
Pipette - Serial Number VOYAGER - 125µl - 8CH	
Pipette Tips - Lot Number 50/125 µl GripTip, Non-sterile	
Notes:	
Run Operator:	
Run Date:	
Run Start Time:	
Run End Time:	
Signature:	