

Appendix 1

**National Microbiology Framework Agreement
Order Form – C207828
Tecan UK Ltd.**


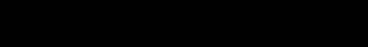

FROM

Authority:	UK Health Security Agency ("the Authority ")
Invoice address:	Post: UKHSA Accounts Payable Team Manor Farm Road Porton Down Salisbury SP4 0JG United Kingdom E-mail: [REDACTED]
Contract Manager:	Name: [REDACTED] Phone: [REDACTED] E-mail: [REDACTED]
Secondary Contact: e.g. business operational contact, project manager	Name: [REDACTED] Phone: [REDACTED] E-mail: [REDACTED]
Procurement lead	Name: [REDACTED] Phone: [REDACTED] E-mail: [REDACTED]
Name and address for notices:	Name: [REDACTED] Address: UK Health Security Agency Nobel House 17 Smith Square London SW1P 3HX
Internal reference (if applicable):	To be quoted on all correspondence relating to this Order Form: Contract Code: C207828

TO

Supplier:	Tecan UK Ltd. (the " Supplier ") Theale Court 11-13 High Street Theale Reading
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National Microbiology Framework Schedule 7 - Ordering Procedure, Award Criteria and Order Form

	RG7 5AH
Contract Manager:	Name:  Phone:  E-mail: 
Secondary Contact:	N/A
Account Manager:	N/A
Name and address for notices:	Tecan UK Ltd. (the "Supplier") Theale Court 11-13 High Street Theale Reading RG7 5AH

Applicable terms and conditions

The following terms and conditions are applicable to the Contract for this Order:

Appendix A	Call-off Terms and Conditions for the Supply of Goods and the Provision of Services	Applicable to this Contract
Appendix B	Optional Additional Call-off Terms and Conditions for Installation and Commissioning Services	<input type="checkbox"/> (only applicable if this box is checked)
Appendix C	Optional Additional Call-off Terms and Conditions for Maintenance Services	<input checked="" type="checkbox"/> (only applicable if this box is checked)
Appendix D	Optional Additional Call-off Terms and Conditions for Bespoke Research, Development and Manufacturing Requirements	<input type="checkbox"/> (only applicable if this box is checked and to the extent the applicable terms are included in Annex A (Order Specific Key Provisions))
Appendix E	Optional Additional Call-off Terms and Conditions for Reagent Rental	<input type="checkbox"/> (only applicable if this box is checked)
Appendix F	Optional Additional Call-off Terms and Conditions for Managed Equipment Services	<input type="checkbox"/> (only applicable if this box is checked)
Appendix G	Optional Additional Call-off Terms and Conditions for Clinical Laboratory Diagnostic Testing Services	<input type="checkbox"/> (only applicable if this box is checked and

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		to the extent the applicable terms are included in Annex A (Order Specific Key Provisions))
Appendix H	<p>Further Optional Additional Call-off Terms and Conditions</p> <p>Each of the following clauses in Appendix H is only applicable to this Contract if the relevant box is checked:</p>	(only applicable if one or more boxes are checked)
	1. TUPE applies at the commencement of the provision of Services <input type="checkbox"/>	
	2. TUPE on exit <input type="checkbox"/>	
	3. Different levels and/or types of insurance <input type="checkbox"/>	
	4. Induction training for Services <input type="checkbox"/>	
	5. Further Authority obligations <input type="checkbox"/>	
	6. Assignment of Intellectual Property Rights in deliverables, materials and outputs of the Services <input type="checkbox"/>	
	7. Inclusion of a Change Control Process <input type="checkbox"/>	
	8. Authority step-in rights <input type="checkbox"/>	
	9. Guarantee <input type="checkbox"/>	
	10. Termination for convenience <input checked="" type="checkbox"/>	
	11. Pre-Acquisition Questionnaire <input type="checkbox"/>	
	12. Time of the essence (Goods) <input type="checkbox"/>	
	13. Time of the essence (Services) <input type="checkbox"/>	
	14. Specific time periods for inspection <input type="checkbox"/>	
	15. Specific time periods for rights and remedies under Clause 3.6 of Schedule 2 of Appendix A <input type="checkbox"/>	
	16. Right to terminate following a specified number of material breaches <input type="checkbox"/>	
	17. Expert Determination <input checked="" type="checkbox"/>	
	18. Consigned Goods <input type="checkbox"/>	
	19. Improving visibility of Sub-contract opportunities available to Small and Medium Size Enterprises and Voluntary, Community and Social Enterprises <input type="checkbox"/>	
	20. Management Charges and Information <input type="checkbox"/>	

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	21. COVID-19 related enhanced business continuity provisions	<input type="checkbox"/>	
	22. Buffer stock requirements	<input type="checkbox"/>	
	23. Modern slavery	<input checked="" type="checkbox"/>	
The additional Order Specific Key Provisions set out at Annex A (Order Specific Key Provisions) to this Order Form shall also apply to this Contract.			<input checked="" type="checkbox"/> (only applicable if this box is checked)

1. CONTRACT DETAILS**(1.1) Commencement Date:**

The date this Order Form is signed by both Parties (the Authority and the Supplier).

(1.2) Services Commencement Date (if applicable):

The date this Order Form is signed by both Parties (the Authority and the Supplier).

(1.3) Contract Price ((i) breakdown and (ii) payment profile):

1.3.1. The maximum value of the Services that can be ordered under this Contract shall be one hundred and three thousand, one hundred and fourteen pounds and zero pence only (£103,114.00) (the “**Contract Price**”).

1.3.2. For the avoidance of doubt, the Authority is not committed to pay the full Contract Price.

1.3.3. The Contract Price excludes VAT at the applicable rate but is inclusive of all Supplier visits, labour and spare part fees.

1.3.4. Only purchase orders placed directly by the Authority are binding under this Contract (“**PO**”).

1.3.5. Full detail of the Contract Price is contained within Table 1 – Contract Price Breakdown (ex VAT):

Table 1 – Contract Price Breakdown (ex VAT):

ITEM NO.	DESCRIPTION	SERIAL-NO.	EQUIPMENT NO.	LOCATION	STARTING DATE	END DATE	
10	Freedom EVO, LiHa-8, RoMa MCA 96, FaWa, Pos-ID, Lower DiTieject, BIOSHAKE, FLUHEMA	1612006374	11395540	UKHSA COLINDALE	18.09.2023	17.09.2024	
20	EVOWARE STANDARD TRAINING COURSE	1 PERSON		TECAN UK, THEALE			
30	EVOWARE STANDARD TRAINING COURSE	1 PERSON		TECAN UK, THEALE			
Total (excl. VAT)							
Total 3 Year Contract (excl. VAT)							
Multi-Year Contract Annual Invoice Amount Per Annum							

- 1.3.6. POs issued by the Authority in respect of this Contract do not form part of this Contract.
- 1.3.7. Each year of the contract shall be invoiced annually in advance. This shall be thirty-four thousand, three hundred and seventy one pounds and zero pence only (£34,371.00) per annum unless terminated in accordance with clause 1.4.2 below.

(1.4) Term of Contract:

- 1.4.1 This Contract shall commence on the date the Order Form is signed by both Parties (the "**Commencement Date**") and shall, unless terminated earlier in accordance with its terms, expire on 17th September 2026 (the "**Term**").
- 1.4.2 The Authority may terminate the Contract for convenience at any time pursuant to Clause 10 (Termination for convenience) of Appendix H (Further Optional Additional Call-off Terms and Conditions) of this Contract provided the Authority gives the Supplier no less than 3 (three) months written notice.

(1.5) Term extension options:

- 1.5.1 The Authority may give notice of its intention to extend the contract for 12 month periods, or such shorter or longer periods as the Authority may specify in the notice, (the "**Extension Period**") by giving the Supplier written notice no later than 10th August 2026.
- 1.5.2 The Authority shall, no later than 10th August 2026 provide the Supplier with details of its requirements for service, maintenance, pairs and training during the Extension Period (the "**Extension Requirements**").
- 1.5.3 The Supplier shall, no later than 10 (ten) Business Working Days after receiving the Extension Requirements provide its proposals to provide the Extension Requirements. In preparing the proposals, the Supplier may not increase the unit prices set out in the quotations.

2. GOODS AND/OR SERVICES REQUIREMENTS

(2.1) Description of the Goods / Services:

- 2.1.1 The Supplier shall provide servicing and maintenance for the Authority's instruments stated in Table 1 contained within clause 1.3.5 of this Order Form (the "**Instruments**") at the

Premises and Locations listed in Section 2.2.

2.1.2 The Supplier shall provide staff training for two staff members as detailed in Table 2 – Services Contained Within the Supplier’s Quote below. Appendix 2 – EVOware Standard Training Course Additional Information contains further details of the training.

2.1.3 The Supplier shall provide the services stated in Table 2 below (the “**Specification**”) for the Instruments listed in Table 1 of this Order Form (the “**Services**”).

Table 2 – Services Contained Within the Supplier’s Quote:

Services Included	Details
Two (2) Scheduled preventive maintenance visit per year	<ul style="list-style-type: none"> • Cleaning and greasing • Adjustments • Calibrations and QC-Tests • Maintenance Report • Travel costs and work-time • Wear & Tear parts
On-site repairs in case of instrument failures	<ul style="list-style-type: none"> • Spare parts (as required) • Travel costs and work-time • Repair report
Minor Updates at the time of scheduled preventive maintenance visits (released for use on the equipment, that are required to be installed on the equipment to maintain reliability, usability and/or safety); Important Upgrades (Improvement of instruments, change of software version, and change of Computer Operating Systems are not included in the coverage of this contract)	<ul style="list-style-type: none"> • Essential Hardware updates • Essential Firmware updates • Essential Software updates

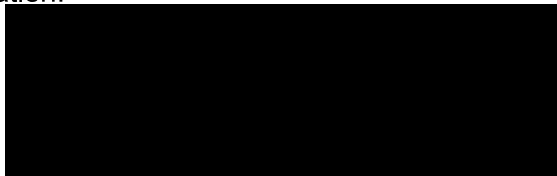
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Introspect™ instrument Utilization software service	<ul style="list-style-type: none"> • Cloud-based automatic data extraction for consumable and instrument usage • Customizable dashboard allows you to visualize data relevant to your lab • Insights on usage data allowing you to improve automation efficiency • Secure encryption protocols allowing connection of numerous instruments safely • Can be accessed anywhere at anytime
Other Services	<ul style="list-style-type: none"> • Helpdesk support (Mo-Fr between 09:00 and 17:30 local time, excluding statutory holidays; email: helpdesk-uk@tecan.com; phone: +44 1 18 930 0300 • Services are performed by Tecan certified field service engineers or application specialists • General response time of 48 hours on Tecan modules. The response time on integrated 3rd party devices is subject to their local service provider
Staff Training	<ul style="list-style-type: none"> • EVOware Standard Training Course • Training can be undertaken at Tecan Head Office, Theale, Reading or as a virtual course
<p>(2.2) Premises and Location(s) at which the Services are to be provided:</p> <p>2.2.1 The Supplier shall provide the Services to the site detailed in Appendix 3 – Premises and Location (“Premises and Location”).</p> <p>2.2.2 The Authority may at any time remove Instruments from the Contract or move Instruments between laboratory sites. The Authority may at any time substitute or add instruments to the Contract. The Authority shall provide the Supplier with as much notice of Instrument</p>	

moves as possible and, in any event, not less than 10 (ten) days' notice. Upon notification from the Authority the Supplier shall immediately suspend all costs related to, or arising from, such Instrument to the greatest extent possible. The Supplier shall not, in any event, charge the Authority any costs relating to such Instrument whatsoever or however arising after 30 (thirty) days of notification and immediate suspension. For the avoidance of doubt and notwithstanding anything to the contrary herein, the Supplier shall be entitled to charge the Authority for any decommissioning and recommission which the Authority instructs the Supplier to undertake.

2.2.3 The Authority may, at any time by giving 1 (one) months' notice to the Supplier add instruments or remove Instruments and add or remove Premises and Locations to the scope of this Contract and the charges shall change in proportion to such changes. At the expiry of the notice period, the scope of the Contract shall be amended, as applicable, to reflect the amended scope set out in the notice.

2.2.4 All planned performance of the Services shall be pre-advised by the Supplier to the Authority's delivery contact stated below at least 2 (two) Business Days prior to the Services being performed on any or all of the Instruments at the relevant Premises and Location:



2.2.5. The Supplier shall provide the following information when notifying the Delivery Contact:

- Supplier name;
- Authority's purchase order ("**PO**") number.
- Full service detail at item level and any special instructions originally entered from the Authority's Order.

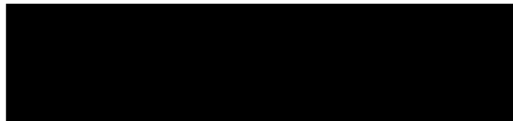
2.2.6. The Delivery Contact will confirm:

- Booking reference number;
- Date and time of Supplier attending the relevant Premises and Location: and
- Premises and Location address where the Services shall be performed.

2.2.7 The Authority may refuse unscheduled performance of Services. In such event, the Supplier shall rearrange such performance of Services utilising the service delivery process set out in this Clause 2.2.

2.2.8 The Authority shall ensure access to Premises and Locations by the Supplier is provided for the provision of the Services in accordance with clause 4.2 of the Call-Off Terms and Conditions.

2.2.9 The Delivery Contact will report any technical issues to:

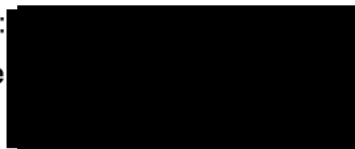


(2.3) Key personnel of the Supplier to be involved in the Goods / Services:

Name:

Phone

Email:



(2.4) Performance standards:

2.4.1 The Supplier shall deliver the Services in accordance with Good Industry Practice.

2.4.2 Timely delivery of the Services.

2.4.3 Quality of Services i.e., Services performed in accordance with the Specification as stated in section 2.1 & 2.5.

2.4.4 Proof of the Services having been performed in accordance with Annex A, clause 1.

(2.5) Quality standards:

2.5.1 The Supplier shall maintain and repair the Instruments to the level of the Supplier's manufactured specifications as sold by the Supplier to the Authority.

(2.6) Contract monitoring arrangements:

2.6.1 The Authority's Contract Manager and Supplier's Contract Manager shall meet as and when required to discuss the Supplier's performance and other matters connected to the delivery of the Contract (unless otherwise notified by the Authority).

(2.7) Management information and meetings:

2.7.1 At the Authority's request, within 5 (five) Business Days of such request, the Supplier shall provide such management information to the Authority as the Authority may reasonably request from time to time.

2.7.2 Examples of management information that can be requested, but not limited to, are:

- a. The Performance Standards as stated in section 2.4 of this Order Form
- b. Issues including quality and performance
- c. Invoicing
- d. Any other relevant business related to the scope of the Services.

3. CONFIDENTIAL INFORMATION (if applicable)**(3.1) The following information shall be deemed Confidential Information:**

- a. Supplier pricing.
- b. Contact details including, but not limited to, email addresses, landline / mobile phone numbers, etc. of Supplier representatives.
- c. Contact details including, but not limited to, email addresses, landline / mobile phone numbers, etc. of Authority's representatives.

(3.2) Duration that the information shall be deemed Confidential Information:

For a period of 3 (three) years after the expiry or earlier termination of this Contract unless otherwise agreed in writing by the Parties.

4. DATA PROCESSING (if applicable)**(4.1) Personal Data to be processed by the Supplier:**

Not applicable.

5. LEASE / LICENSE (if applicable)

(5.1) The Authority is granting the following lease or licence to the Supplier:

Not applicable.


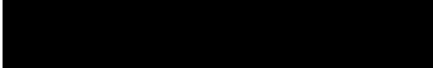
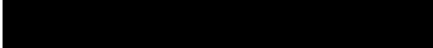
For and on behalf of the Authority

DocuSigned by:


Full Name: 
Job Title/Role: 
Date Signed: 

For and on behalf of the Supplier

DocuSigned by:


Full Name: 
Job Title/Role: 
Date Signed: 

Annex A

Order Specific Key Provisions

1. Acceptance

- 1.1. The Supplier shall perform the Services at the Premises and Location set out in Appendix 3 of this Order Form.
- 1.2. The following criteria for the acceptance of the Services performed by the Supplier by the Authority shall apply ("**Acceptance**"):
 - a. Upon performance of the Services the Supplier shall produce and submit to the Authority a service report for signature by the Authority's authorised representative in accordance with Appendix 4 – Sample Service Report ("**Service Report**").
- 1.3. If Services are deemed not to be Accepted by the Authority, the Supplier shall reperform the Services at their own cost.

2. Invoicing Terms

- 2.1. Payment terms are net 30 (thirty) days from receipt of a compliant invoice.
- 2.2. Within 10 (ten) Working Days of receipt of the Supplier's countersigned copy of the Contract, the Authority shall send a purchase order ("PO") to the Supplier.
- 2.3. Following receipt of the Supplier's countersigned copy of the Contract, the Authority will send a unique PO number. The Supplier must be in receipt of a valid PO number before submitting an invoice.
- 2.4. All invoices presented by the Supplier to the Authority shall be for Services performed by the Supplier and Accepted by the Authority.
- 2.5. All invoices must be sent for approval and shall include the proof of Acceptance to the Authority's designated finance mailbox e-mail: [REDACTED] and their agreed representative before being submitted for payment.

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- 2.6. All invoices must be sent quoting a valid PO number. The Supplier shall provide a current statement of accounts on a monthly basis; this is a standard commercial process and should show all invoices raised and amounts outstanding.
- 2.7. The Supplier shall provide compliant invoices that include, as a minimum, a valid PO number, PO line item number (if applicable), PO line description, and the details (name and telephone number) of the Authority's authorised representative. Non-compliant invoices will be sent back to the Supplier, which may lead to a delay in a payment.
- 2.8. In support of the Services provided, the Supplier shall provide to the Authority a Service Report confirming provision of the Services at the Authority's nominated Premises and Location in accordance with clauses 1.2 a) above.

Appendix 2 – EVOware Standard Training Course Additional Information

Freedom EVOware® Standard

This course will provide the participants with convenient step-by-step instructions to implement and optimize scripts with the Freedom EVOware Standard software.

Participants will develop knowledge and establish confidence in order to get the best out of their Freedom EVO instrument.


General information

Content

The following topics are covered in this course:

- General introduction to Freedom EVO instrument
- Installation of Freedom EVOware software
- System configuration
- Software interface
- Settings and data structure
- Configure worktable, carriers and labware
- Teaching robotic arms, create and adjust vectors
- Create scripts using a wide variety of commands
- Introduction to liquid handling
- Worklist
- Data import and export
- Error handling
- Troubleshoot runtime issues
- Maintenance procedures
- Final test and certification

Appendix 3 – Premises and Location

Site	Address	Postcode	Delivery Contact	Email and Contact Number
UKHSA Colindale	61 Colindale Avenue London NW9 5HT	CB2 0QW		

Appendix 4 – Sample Service Report



Approval of Services

Customer

Name

Contact person

Address

Postal code / City

Country

Purpose

The purpose of this approval page is to replace the single signatures on each document listed below. With signing this document the signatories approve and accept the content of all listed document, and agree that the testing results meet specified business and quality requirements. The detailed meaning of the signature is defined at the fields Tecan Service Technician and Customer.

Note: It may be found in the document bundle Tecan Service Technician signature/ date fields are empty. Tecan accepts and judge these as - NOT APPLICABLE – fields related to the scope of this page.

Statement of disclaimer

This document and its contents are exclusive property of Tecan. This document may not be reproduced in any form, without prior written permission from Tecan.

Total Pages in Report - 8

List of documents

Date	Document name	Description
02.10.2020		Service Report
02.10.2020		Tip Adapter Test
02.10.2020		DITI Test
02.10.2020		Liquid Level Detection

Tecan Service technician:

Meaning of the signature:

I herewith confirm that I have authored the above listed documents; I have checked that the testing results and inspection data, and confirm that they meet Tecan's specified requirements for equipment operation. I approve the data based on the scope of my responsibility and expertise.

Date of signature:

Customer:

Meaning of the signature:

I herewith confirm that I have reviewed, accepted and approved the content of the above listed documents. I herewith accept the testing results and inspection data based on the scope of my responsibility and expertise.

The content of the documents meets all applicable business and quality requirements and reflect the procedures described.

Tecan UK Ltd., Theale Court, 11-13 High Street,
Theale, Reading, RG7 6AH, United Kingdom
T +44 0 118 930 0300, F +44 0 118 930 6671
mailto:tecانuk@tecان.com, www.tecan.com
VAT-Nr.: GB449491609; Registered No.: 2027512

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Service Report

Service order number		Phone	
Customer's address		Contact person	
		Date call received	
		Date of service	
		PQ number	

Equipment number		Serial number	
UDI			
Equipment description			
Symptoms - Group code		Symptoms - Coding	

Solution/Corrective action	
----------------------------	--

BC (Bill Code): Z1 = Good will Z2 = Warranty Z3 = To be invoiced Z4 = Warranty on Repair
 Z5 = Contract Z6 = Installation

Component	Description	Quantity	Serial # Added	Serial # Removed	BC

Instrument status at time of service report

- ☒ Repaired - Normal utilization can continue
☐ Fault/Defect not reproducible - Normal utilization can continue
☐ Fault/Defect still present

Date	Work Hours	BC	Travel Hours	BC	Distance	BC

Date: 02.10.2020	Tecan		Customer	
	Signature		Signature	

Tecan UK Ltd., Theale Court, 11-13 High-Street,
 Theale, Reading, RG7 6AH, United Kingdom
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 mailto:tecanuk@tecan.com, www.tecan.com
 VAT-Nr.: GB449491609; Registered No.: 2027612

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QC Report

LiHa Device Test

LiHa.dll Version: 1.27.1.0
 Panel.dll Version: 1.27.1.0
 Genesis.dll Version: 1.27.1.0
 GUIExtensions.dll Version: 1.26.1.0
 OSpp.dll Version: 1.25.1.0
 Setup and Service Version: 8.0.1.0
 Computer Name: NBUKRE005176.tecan.net

LiHa Serial Number: 1612006375
 Instrument Type: EVO
 Instrument Serial Number: 1612006374
 Tools [Type, SN]: None specified
 Date: 02/Oct/2020 11:19:43

Test Result: Passed
 Tests done: All
 Test Configuration: Default
 Device Default Settings: Default

Operator: FSE

Date:

Signature:

Device

Configuration

Address: C5
 Firmware Version: V1.80-02/2016
 Bootware Version: V1.10-04/2007
 Number of Tips: 8
 Spacing: 9.0 - 38.0 mm variable
 LLD Type: Standard ilid

Parameters

Axes

	Offset	Displ	Range	Scale	Accel	Speed	Move Speed
X	1.0	-17.9	1353.5	0.9997	160.0	1000.0	100.0
Y	1.0	-88.7	283.9	0.9989	240.0	350.0	35.0
Ys	1.0	9.0	38.0	0.9994	240.0	350.0	35.0
Z1	8.6	-50.0	260.0	1.0000	200.0	400.0	40.0
Z2	8.4	-50.0	260.0	1.0000	200.0	400.0	40.0
Z3	8.5	-50.0	260.0	1.0000	200.0	400.0	40.0
Z4	8.5	-50.0	260.0	1.0000	200.0	400.0	40.0
Z5	8.5	-50.0	260.0	1.0000	200.0	400.0	40.0
Z6	8.5	-50.0	260.0	1.0000	200.0	400.0	40.0
Z7	8.6	-50.0	260.0	1.0000	200.0	400.0	40.0
Z8	8.5	-50.0	260.0	1.0000	200.0	400.0	40.0

Diagnostics

Axes

	Moves	Moves (cl)	Distance	No-Loads	Fetches DiT's	Piercings	Status
X	167961	167961	12166	3	-	-	ready
Y	74233	74233	6145	1	-	-	ready
Ys	74538	74538	6019	2	-	-	ready
Z1	336504	336504	13800	51	7470	0	ready
Z2	334617	334617	13678	19	7147	0	ready
Z3	334472	334472	13671	10	7107	0	ready
Z4	334256	334256	13710	22	7153	0	ready
Z5	334458	334458	13686	10	7128	0	ready

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	Moves	Moves (cl)	Distance	No-Loads	Fetches DiT's	Piercings	Status
Z6	334389	334389	13724	11	7141	0	ready
Z7	334620	334620	13813	12	7400	0	ready
Z8	334454	334454	13811	21	7260	0	ready

Te-PS Carriers
Grid

Setup Results**Arm Position Accuracy: Not Applicable**

Test Configuration Details

Pass / Fail Criteria

Detailed Results

Tips and Test

Te-PS Compliance Test: Not Applicable

Test Configuration Details

Pass / Fail Criteria

Detailed Results

Carrier Alignment Test: Not Applicable

Test Configuration Details

Pass / Fail Criteria

Detailed Results

Tip Adapter: Passed

Test Configuration Details

Available Adapters: 8

Participating Adapters: 8

Pass / Fail Criteria

All adapters must report 'open' and 'closed' correctly

Detailed Results

Adapter 1: Passed

Adapter 2: Passed

Adapter 3: Passed

Adapter 4: Passed

Adapter 5: Passed

Adapter 6: Passed

Adapter 7: Passed

Adapter 8: Passed

Test Configuration: Default

Tip Verify: Not Applicable

Test Configuration Details

Detailed Results

Individual-Z Verify: Not Applicable

Test Configuration Details

Detailed Results



QC Report

DiTi Test Device Test

DiTiTest.dll Version: 1.20.1.0
 Panel.dll Version: 1.27.1.0
 Genesis.dll Version: 1.27.1.0
 GUIExtensions.dll Version: 1.26.1.0
 OSpp.dll Version: 1.25.1.0
 Setup and Service Version: 8.0.1.0
 Computer Name: NBUKRE005176.tecan.net

DiTi Test Serial Number: 1612006375
 Instrument Type: EVO
 Instrument Serial Number: 1612006374
 Tools [Type, SN]: None specified
 Date: 02/Oct/2020 11:28:29

Test Result: Passed
 Tests done: All
 Test Configuration: Default
 Device Default Settings: na

Operator: FSE

Date:

Signature:

Device

Configuration

Firmware Version: V1.80-02/2016
 Bootware Version: V1.10-04/2007
 Tip Configuration

	Type
Tip1	Disposable Tip Adapter
Tip2	Disposable Tip Adapter
Tip3	Disposable Tip Adapter
Tip4	Disposable Tip Adapter
Tip5	Disposable Tip Adapter
Tip6	Disposable Tip Adapter
Tip7	Disposable Tip Adapter
Tip8	Disposable Tip Adapter

Lower DiTi Eject Test: Passed

Test Configuration Details

Cycles: 12
 Tip selection: 1, 2, 3, 4, 5, 6, 7, 8
 DiTi Type: 1000 EDiTi

Pass / Fail Criteria

Each fetching and dropping of DiTis is visually verified.

Number of DiTis not fetched: 0
 Number of DiTis not mounted: 0
 Number of DiTis not dropped: 0

Detailed Results

Cycles done: 12
 Number of errors DiTis not fetched: 0
 Number of errors DiTis not mounted: 0
 Number of errors DiTis not dropped: 0
 Operator confirmed that all DiTis have been fetched and dropped correctly.



QC Report

Liquid Handling System

LiquidSystem.dll Version: 1.20.1.0
 Panel.dll Version: 1.27.1.0
 Genesis.dll Version: 1.27.1.0
 GUIExtensions.dll Version: 1.26.1.0
 OSpp.dll Version: 1.25.1.0
 Setup and Service Version: 8.0.1.0
 Computer Name: NBUKRE005176.tecan.net

Instrument Type: EVO
 Instrument Serial Number: 1612006374
 Tools [Type, SN]: None specified
 Date: 02/Oct/2020 11:37:23

Test Result: Passed
 Tests done: Not All
 Test Configuration: Default

Operator: FSE

Date:

Signature:

Devices

LiHa Arm

Serial Number: 1612006375
 Address: C5
 Firmware Version: V1.80-02/2016
 Bootware Version: V1.10-04/2007

Liquid Channel Configuration

	Tip Type	Pipetting Tubing	Syringe Volume [ul]
Tip 1	Disposable Tip Adapter	Standard	1000
Tip 2	Disposable Tip Adapter	Standard	1000
Tip 3	Disposable Tip Adapter	Standard	1000
Tip 4	Disposable Tip Adapter	Standard	1000
Tip 5	Disposable Tip Adapter	Standard	1000
Tip 6	Disposable Tip Adapter	Standard	1000
Tip 7	Disposable Tip Adapter	Standard	1000
Tip 8	Disposable Tip Adapter	Standard	1000

Aspiration Tubing Configuration

Tubing type: Standard

FaWa

Serial Number: 15490182
 Address: C6T30
 Firmware Version: V3.20-04/2007
 Bootware Version: V1.00-08/2003

Worktable: PHE Colindale

FaWa Test: Not Done

Test Configuration Details

Pass / Fail Criteria

Detailed Results

Liquid Level Detection Test: Passed

Test Configuration Details

National Microbiology Framework Schedule 7 - Ordering Procedure, Award Criteria and Order Form

LLD

Common

DiTi Type:	1000 EDiti
Cycles:	15
Clot Error Limit [mm]:	4.0
Error Limit [mm]:	1.5
Tip Deviation Limit [mm]:	2.5
Air Gap [ul]:	30
LLD Speed [mm/sec]:	60.0
Clot LLD Speed [mm/sec]:	40.0
Source Liquid Conductivity:	Bad
Prefill LLD Mode:	Trough mode
Prefill Aspiration Acceleration [ul/sec ²]:	7000
Prefill Aspiration Deceleration [ul/sec ²]:	7000
Prefill Aspiration Speed [ul/sec]:	100
Prefill Dispense Acceleration [ul/sec ²]:	15000
Prefill Dispense Deceleration [ul/sec ²]:	30000
Prefill Dispense Speed [ul/sec]:	300
Prefill Submerge [mm]:	2.0
Retract Speed [mm/sec]:	20.0
User prompt on error:	enabled

LLD Source Racks

	Name	FirstWell	WellCount
Trough (Prefill > 5ml)	C3.RR	1	1

LLD Dest Racks

	Name	FirstWell	WellCount	Interleaved Wells
Trough (Prefill > 5ml)	C3.RR	1	1	0

LLD Prefill Volume

	Tip1 [ul]	Tip2 [ul]	Tip3 [ul]	Tip4 [ul]	Tip5 [ul]	Tip6 [ul]	Tip7 [ul]	Tip8 [ul]
Trough (Prefill > 5ml)	0	0	0	0	0	0	0	0

LLD Liquid

	Submerge [mm]	Liquid Conductivity	LLD Mode
Trough (Prefill > 5ml)	2.0	Good	Trough mode

Pass / Fail Criteria

'z-in-dev' smaller or equal 'Error Limit [mm]': 1.5

'Liquid det err' equals 0

'Clot error' equals 0

How these results are achieved:

For tips that are expected to find liquid (prefill volume > 0 or destination is a trough):

- 1) 'Liquid det err' is incremented if no liquid is detected.
- 2) 'z-in-dev': max difference of the found levels measured over 'Cycles'.
- 3) 'Clot error' is incremented if no exit signal occurs within 'Clot Error Limit'.

For tips that are not expected to find liquid (no prefill and destination is not a trough):

- 1) 'Liquid det err' is incremented if liquid is detected.
- 2) 'Clot error' is incremented if an exit signal occurs within 'Clot Error Limit'.

Detailed Results

Summary

	Tip 1	Tip 2	Tip 3	Tip 4	Tip 5	Tip 6	Tip 7	Tip 8
z-in-dev	0.3	0.4	0.4	0.3	0.4	0.5	0.4	0.4
Liquid det err	0	0	0	0	0	0	0	0
Clot error	0	0	0	0	0	0	0	0
Passed	yes	yes	yes	yes	yes	yes	yes	yes

Trough (Prefill > 5ml)

	Tip 1	Tip 2	Tip 3	Tip 4	Tip 5	Tip 6	Tip 7	Tip 8
z-in-min	72.4	72.4	72.2	72.4	72.2	72.4	72.4	72.2
z-in-max	72.7	72.8	72.6	72.7	72.6	72.9	72.8	72.6
z-in-dev	0.3	0.4	0.4	0.3	0.4	0.5	0.4	0.4
z-out-min	na	na	na	na	na	na	na	na

	Tip 1	Tip 2	Tip 3	Tip 4	Tip 5	Tip 6	Tip 7	Tip 8
z-out-max	na	na	na	na	na	na	na	na
z-out-dev	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liquid det err	0	0	0	0	0	0	0	0
Clot error	0	0	0	0	0	0	0	0
Passed	yes	yes	yes	yes	yes	yes	yes	yes

Gravimetric Pipetting Precision Test: Not Done

Test Configuration Details

Pass / Fail Criteria

History

Detailed Results

Colorimetric Pipetting Precision Test: Not Applicable

Test Configuration Details

Pass / Fail Criteria

Detailed Results