Biotage® Extrahera™-Peptide Installation and Familiarization Checklist

The following document will ensure that the installation is complete and that all installation steps and tasks have been performed. It will also provide guidelines for best practices and familiarization of the system after installation has been completed. The familiarization is intended to give the system operators a basic overview of the operation and maintenance of the new instrument, system, and software. Familiarization is not intended or designed to substitute a full operator training course. Familiarization will take up to a maximum of two hours.

We cannot guarantee a complete installation or demonstration if the site requirements are not met. If you have any questions, please do not hesitate to contact your local Biotage® 1-Point Support™ group.

Please use the checklist below to track progress of both the installation and familiarization and fill out this form electronically. A printed copy should be signed by both the Field Service Engineer and Customer and given to the Customer after completion.



Installation Checklist

Shipping Review

\checkmark	Tasks	Notes				
	Inspect the shipment carefully and verify that entire order has been received.	Use the packing lists to confirm that no items are missing. Inspect for any damages due to shipping. If the packaging or the instrument				
	Inspect the shipping containers for damage and review contents for internal damage.	has been damaged, confirm with the customer that the receipt of Instrument document was completed and that a claim was initiated with the shipping company.				
Site	Site Preparations					
\checkmark	Tasks	Notes				
	Ensure that the site requirements are met and that the final instrument location is accessible and ready for installation.	If available, review the site preparation checklist document signed by the Customer.				
	Ensure that $\ensuremath{N_2}$ gas is present at a pressure of 6 +/- 0.2 Bar.	Other inert gas option may be chosen.				
	Ensure that Air is present at a pressure of 6 +/- 0.2 Bar with flowrate at 5 L/min					
	Ensure that the N_2 gas fulfils the qulity required according to ISO 8573-1, classification 1-6-1. Indicate if not used.	If the gas applied is not according to class x-6-x, an air dryer needs to be ordered separately (P/N $416441SP$).				



Mains Voltage Supply

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\checkmark	Tasks	Actual VAC	Notes			
120	120-240 VAC, 50/60Hz, 300 VA					
	L1 to neutral is between 100 and 120 VAC.		Verify the mains supply prior to physical connection of the instrument and pump to the lab supply voltage.			
Envi	ronmental Conditions at Room Temperatu	re				
\checkmark	Tasks	Actual VAC	Notes			
	Temperature is between 18 and 32 °C.		In the event the lab is not equipped with temperature and humidity measurement devices or the lab conditions are outside of the specified control limits, a deviation to this			
	Humidity is between 10 and 90% RH.		installation must be documented.			
Unpa	acking and Lifting the System					
$\sqrt{}$	Tasks		Notes			
Rem	nove the Packing and accessory Box					
	Carefully lift the Extrahera by using the handles and place it in a well-ventilated fume hood or an equivalent enclosure.		Two or more persons are needed when lifting the system. The weight of a system is 75 kg (165 lbs).			
	Level the system by adjusting the height of the feet.		Pay particular attention to the foam insert that holds the robot in position.			
	Prepare for ventilation connections if the system is to be installed on a benchtop (outside a fume hood or equivalent enclosure).		The ventilation system or fume hood must be capable of exhausting 6 cubic meters/min (212 cubic feet/min).			
			The outer diameter of the air duct adapter is 159.0 ± 0.3 mm (6.26" ± 0.01 "), and the inner is 152.7 ± 0.3 mm (6.01" ± 0.01 ").			
Syst	tem Set-up					
\checkmark	Tasks		Notes			
	Install the screen.					
	Electrical connections.					
	Computer connections,					
	Gas connections (N_2) .					
	Pneumatic connections (Air or N_2).		Detailed instructions can be found in the service manual and in the getting started guide.			
	Waste kit connections.					
	House vacuum or external vacuum pump.					
	Install the solvent racks and tip racks.					
	Set up the tubing connection and solvents.					



System Start-up

√	Tasks	Notes
	Turn on the system.	All test results shall be noted and recorded.
	Verify that the system start up with no issues or error codes.	
	Verify that the external vacuum pump or house vacuum is initialized.	
	Verify that the installed versions of Software and OS are the latest.	If a later SW version is available, upgrade the system.
	Check that Solvent bottles are connected to the solvent tubing.	
	Verify that the Solvent feeder is inserted and active.	
	Set system date and time.	
	Set the serial number of the unit.	
	Check and record the Robot Calibration parameters.	System has been calibrated at factory.
Syst	tem Verification and Functional Testing	
Syst √	tem Verification and Functional Testing Tasks	Notes
Syst √	_	Notes
Syst	Tasks Prime/flush all five solvent inlet lines with 25 mL of methanol. Empty the	Notes
Syst	Tasks Prime/flush all five solvent inlet lines with 25 mL of methanol. Empty the reservoirs and repeat twice.	Notes
Syst	Tasks Prime/flush all five solvent inlet lines with 25 mL of methanol. Empty the reservoirs and repeat twice. Verify that all 5 solvents pumps are functional. Prime/flush all five solvent inlet lines with 25 mL of water. Empty the	Notes All test results shall be noted and recorded
Syst V	Prime/flush all five solvent inlet lines with 25 mL of methanol. Empty the reservoirs and repeat twice. Verify that all 5 solvents pumps are functional. Prime/flush all five solvent inlet lines with 25 mL of water. Empty the reservoirs and repeat twice. Empty the solvent reservoirs and flush the five solvent inlet lines again	
Syst V	Prime/flush all five solvent inlet lines with 25 mL of methanol. Empty the reservoirs and repeat twice. Verify that all 5 solvents pumps are functional. Prime/flush all five solvent inlet lines with 25 mL of water. Empty the reservoirs and repeat twice. Empty the solvent reservoirs and flush the five solvent inlet lines again with 25 mL of water. Verify visually that all solvents levels are approximately equally filled.	All test results shall be noted and recorded
Syst V IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Prime/flush all five solvent inlet lines with 25 mL of methanol. Empty the reservoirs and repeat twice. Verify that all 5 solvents pumps are functional. Prime/flush all five solvent inlet lines with 25 mL of water. Empty the reservoirs and repeat twice. Empty the solvent reservoirs and flush the five solvent inlet lines again with 25 mL of water. Verify visually that all solvents levels are approximately equally filled. Clean & Primed Solvent System Performance. Perform the Pressure Head Function Test (Both for 96 and 24 plate	All test results shall be noted and recorded



Record Section

System Information	
Extrahera Serial #	
Application SW Version	
Controller SW Version	
Mover FW Version	
Pressure Head Function Test Result (Pass/Fail)	
Waste Valve Function (Pass/Fail)	
Pumper FW Version	
Calibration coefficient (K)	
Calibration offset (M)	
Clean & Primed Solvent System Performance Checked (Yes/No)	
Pipetting Performance Test Result (Pass/Fail)	

Extrahera Pipette Performance Test

The result of the Pipette Performance Test shall be recorded below and the data sheet attached as an appendix to this Installation document.

Analysis	% CV Pass/Fail	% Accuracy Pass/Fail	Date of Test
Channel 1			
Channel 2			
Channel 3			
Channel 4			
Channel 5			
Channel 6			
Channel 7			
Channel 8			



Familiarization Checklist

To review with the operator/operators

1. S	ystem	Overview	and Hardware	: Familiarization
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\checkmark	Tasks	Notes			
	Hardware Overview.	Review with the customer what equipment they have and explain the function.			
	Specifications overview.	Review the system specifications.			
	System startup and shut down procedures.				
	Show Solvent Pumps and feeder.				
	Show the Z head/Robot functions.				
	Show how to remove and take out the pump unit.				
	Show the pressure plate and the procedure to remove and replace it.				
	Show the Carousel, Lifter and door.				
2. S	oftware Overview				
√	Tasks	Notes			
Sho	ow and Explain the Options in the Main Menu:				
	Run Single Mehod				
	Run Multiple Methods				
	Reports	Show and Explain all the tabs in each of the options.			
	Manage Methods				
	Data Administration				
	About				
	Install PeptiRen-96 methods	PeptiRen-96 DMSO 0.3 mL, PeptiRen-96 Aqueous 0.75 mL (Available on the ftp site)			
Met	hods & Run				
	Explain and show how to create a Method.				
	Explain how to run a Method.				
	Show the preparation steps before executing a run.				



3. Safety and Safe Operation Overview

\checkmark	Tasks				
	Review the safety precaution Extrahera.	ns necessary when working with the	Use the Installation and safety guide.		
4. M	aintenance and Troubles	shooting			
\checkmark	Tasks				
	Show and Explain the Mainte	enance tab in the Main Menu.			
	Show maintenance procedur	e and best practice.			
	Explain Log files for error reporting and how to access it.				
Note	!S				
This checklist confirms familiarization has been provided as outlined in this document. Any further training if required is covered in advanced user training.					
Com	pany Name and Location				
Cust	tomer Name		Date		
Field	d Service Engineer		Date		

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