GEP Recommendation

Company	ABZ pharma
Contact	Roger Silber
Department	Lab head
Site	Bern, Switzerland
City / Zip	bern

Date: 4/19/2023

User Requirements

Expected pH value	7
Sample consistency	Liquid
Sample composition	Aqueous
Expected sample temperature	25 °C
Sample volume	30 ml
	Sample consistency Sample composition Expected sample temperature

Seven2Go Pro S8-Meter	
InLab®Routine Go-ISM	
uGo carrying case	
License EasyDirect pH	6.85
NIST/DIN Buffer pH 6.865	Contractor 0 Anti-Anti-Anti-Anti-Anti-Anti-Anti-Anti-
NIST/DIN Buffer pH 9.180	
Technical Buffer pH 7.00	LOLEDO
Storage Solution InLab	AFTILER OF
	InLab®Routine Go-ISM uGo carrying case License EasyDirect pH NIST/DIN Buffer pH 6.865 NIST/DIN Buffer pH 9.180 Technical Buffer pH 7.00



Services Recommendation	
Services by supplier	
Installation and Qualification	Starter Pac
User training	Expert with certification
Preventive maintenance	Comprehensive Care
Calibration & adjustment	Yearly



Routine operation by user - pH Sensor

• *** • ** • • • • • • • • • • • • • •	Before first sample of the day $\!\!\!\!\!\!^*$	Linear calibration with pH buffers 6.865 and 9.18	
Calibration standard ¹⁾	Ensure sensor slope is 95% - 105	$\%$ and offset < ± 20 mV otherwise clean and recalibrate the sensor	
Verification of measurement ²⁾	After calibration		
Visual sensor verification	Before Calibration. Check for blocked diaphragm and/or glass cracks		
Electrolyte level maintenance	Check that enough electrolyte is present before every calibration		
Sensor cleaning	Daily	using appropriate solution in accordance with your sample	
Sensor reconditioning	Weekly	recondition in 0.1 M HCl	
Sensor storage	Store in electrolyte for less than 8 hours or in storage solution for longer term storage		

System Recommendation Details

Item	Item-No.	Pcs	Description
Seven2Go Pro S8-Biotech	30207878	1	pH/ion meter with InLab Routine Go-ISM
uGo carrying case	30122300	1	Carrying case for Seven2Go und SevenGo Duo
License EasyDirect pH	Included	1	Included Data Handling Software License
Technical Buffer pH 7.00, 30x 20 mL Sachets	51302047	2	pH buffer to cover initial 3 months demand
NIST/DIN Buffer pH 6.865, 30x 20 mL Sachets	30111137	2	pH buffer to cover initial 3 months demand
NIST/DIN Buffer pH 9.180, 30x 20 mL Sachets	30111138	2	pH buffer to cover initial 3 months demand
Storage Solution InLab, 250 mL	30111142	1	Maintenance Solution for pH sensors
StarterPac Installation	MO_StarterPac	1	Installation qualification (IQ), Initial training, Routine operation
Comprehensive Care	MO_Comp_Care	1	Preventive Maintenance on site, Remote Support, Technical Hotline, Priority Intervention, Repair Labor, Repair Parts, Travel Time

Remarks

1) Calibration and verification frequencies are recommended based on specified impact and measuring tolerance. Additional factors such as type of sample, number of samples and sample charateristics may result in higher or lower frequencies.

* If the amount of samples exceeds 30 per day, it is recommended to calibrate a second time, after half the samples

2) If the verification result is outside of the specified tolerance, perform a new calibration

Disclaimer

The recommendations provided in this document are for information purposes only and are not binding in any way. The Recommendations are based on the information described in section "User Requirements"; other factors, which might also have an influence on the choice of systems and services, may not have been taken into account. The accuracy of measuring results is affected by the choice of meter, sensor, buffers, the properties of samples, the environment, the user, and other contributions. The recommended system and services are based on an ideal sample for the selected impact and measurement tolerance. The accuracy of your actual sample may differ from the selected tolerance and must be determined in your environment using your specific sample. The final responsibility is with the user of the system. The recommendations are provided to you without any warranties and do not extend our liability. For information on the use of your data, please visit www.mt.com/privacypolicy.

Date	4/19/2023
Created by	parul chhaparia
Email	Parul.Chhaparia@mt.com

www.mt.com/GEP