Preparing Quality Control	CHENOMX	
S002		CHIENOMA
Version: 1.0	Date: 23-May-2019	

Preparing Quality Control (QC1) Solution

Purpose This procedure provides information on how to prepare a 100 ml Quality Control (QC1)

Solution to make a QC sample to verify the accuracy of the analysis

Materials

Reagents	Supplies	Equipment
Sodium Acetate	• 50 mL falcon tube	 Analytical balance
Sodium Formate	• 100 mL volumetric flasks	pH meter
• Valine	Weighing paper/tray	• Vortex
Glycine	• 125 mL amber storage	
Sodium Azide (NaN3)	bottle	
	Spatula	

Procedure

- The concentration of each compound in standard solution is **5.00 mM**
- The solution should contain 0.1% (g/mL) sodium azide to prevent bacterial growth

Reagent	Cas Number	Molecular Weight (g/mol)	Weight (mg)
Sodium Acetate	127-09-3	82.03	41.02
Sodium Formate	141-53-7	68.01	34.01
Valine	72-18-4	117.15	58.58
Glycine	56-40-6	75.07	37.54

Step	Details
1.	Review the Material Safety Data Sheets for all the reagents.
2.	Calibrate the analytical balance.
3.	Using a weighing boat, carefully weigh the reagents mentioned on the table above and
	dissolve each compound in 50 mL of deionized H ₂ O.
4.	Weigh 100 mg of sodium azide and dissolve in the 50 ml solution made at step 3.
5.	After thoroughly mixing, Adjust the pH to 7.0
6.	Transfer the solution to a 100 ml volumetric flask. Add H ₂ O to bring the level of the
	flask to 100 ml.
7.	Stopper the flask and mix by turning upside down and back several times.
8.	Store the standard solution at 4 °C

References Not applicable

Related

Documents Not applicable

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