



CARBON CHEMISTRY

Brine Wash

Safety

1. SDS Sheets: Available upon request on all chemicals used in this process.
2. PPE: The following should be worn by all lab personnel during brine washing:
 - a. Splash goggle
 - b. Lab coat
 - c. Gloves

Preparation

1. Required Materials/Media:
 - Carbon Chemistry Sodium Bicarbonate
 - Citric Acid
 - Distilled Water
 - Salt
 - pH Meter/Test Strips
 - Stirrer

Procedure

1. Prepare 60 parts saline (1-5% Salt to distilled water)
2. Separate saline into 3 equal volumes
3. Use citric acid to bring the pH of one volume of saline to pH 4
4. Use sodium bicarbonate to bring the pH of one volume of saline to pH 8
5. Add pH 4 saline to reactor
6. Mix for 10 minutes
7. Drain saline
8. Repeat steps 7-9 with pH 8 saline
9. Repeat steps 7-9 with remaining neutral pH saline