

geno-MIC

microbiologically influenced corrosion

STANDARD OPERATING PROCEDURES

for

Sampling Corrosion Coupons

Using Swabbing Technique

for

Genomics Analysis

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Important Notes

1. Avoid contamination of samples.
 - a. Wear lab/latex gloves when collecting samples.
 - b. Do not touch the inside of containers and lids
 - c. Do not reuse needles and syringes and sampling tools (spatulas, scrappers)
2. Some sample containers contain DNA preservative. Do not discard this preservative.
3. Samples should be place in a cooler with ice/ice packs immediately.
 - a. Do not freeze samples.
 - b. Do not expose samples to extreme heat or sun light.
 - c. Ship samples as soon as possible and with enough ice to last at least four days in transit.

Summary of Samples Requested

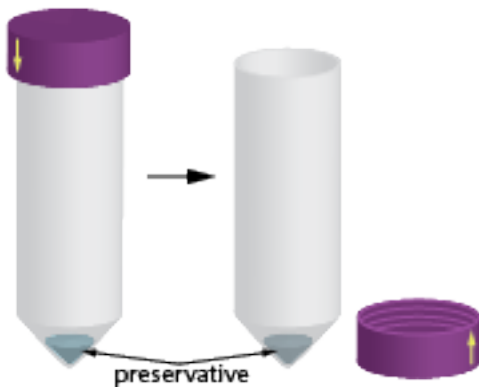
Sample Type	Source	Sample Container	Number of samples	Preservative in container	Analysis to be performed
Solids	Surface of coupon	15 mL plastic tube	1	yes	genomic (DNA) analysis
Coupon	Coupon itself	50 ml tube or plastic bag	1	no	Weight loss

Swabbing Coupons

1. Put on latex/nitrile gloves.

IMPORTANT NOTES:

- Do not touch any part of the coupon with bare hands/work gloves. Need to avoid transferring microbes from your hand/work gloves.
- Use a new pair of lab gloves for each sample location/coupon.



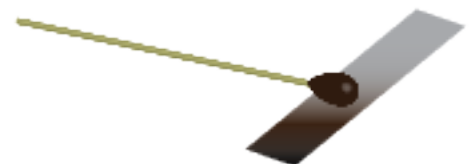
2. Two sampling tubes will be provided per Ziploc bag.

Loosen the lid of one of the conical tubes labeled ‘**SWAB with preservative**’. Tubes contain a small volume of a chemical preservative – do not discard. Set the lid down, thread side-up. Do not to touch the inside of the tube or lid.

3. Tear open the swab package near the stick end. Avoid touching the swab end.



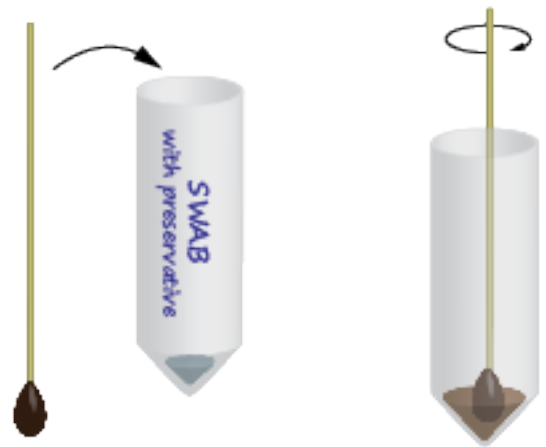
- Remove the sterile swab, ensuring to hold the swab near the top 1-1.5 inches and ensuring not to touch the swab to anything. Holding the coupon on the sides only, swab the exposed surface of the coupon. Start at one end and swab from side to side (in a back and forth motion as indicated in the diagram) several times until you reach the other end of the end of the coupon.



IMPORTANT NOTE: if the coupon appears dry – dip the swab into the conical tube containing the liquid preservative first to moisten, then use to swab.



5. Immediately insert the swab into the conical tube that contains the preservative, and swish around to make sure the preservative contacts the sample material.



6. Break the top of the swab handle so that the length is below the top of the tube. Close the tube with the lid, ensuring that the lid is seated/sealed well. The broken end of the swab handle can be discarded.



7. Place the swabbed coupon into a second tube without preservative, close/seal lid.

8. Put both tubes back into a Ziploc bag and close.
9. Clearly label the bag with sampling location, date and time.



Shipping

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