

Environmental monitoring for quality assurance

Materials

- Environmental monitoring SOP
- Environmental monitoring assessment

Procedure

1. Complete the Environmental monitoring for quality assurance SOP
2. Collect data in the table below using the instructions in the following:
 - [ols.plus/petrifilm-ab](#)
 - [ols.plus/petrifilm-ym](#)
 - [ols.plus/petrifilm-eb](#)
3. Recreate the table below in a spreadsheet.
4. Write a three-paragraph summary of your results on a word processing document following the format below:
 - **Paragraph 1:** REE (results, evidence and explanation): describe your results and how they may be used.
 - **Paragraph 2:** PE (possible errors): identify any sources of error and how that may have affected the results.
 - **Paragraph 3:** PA (practical applications): investigate other types of 3M Petrifilm Plates and pick one and explain how it could be helpful at your school.

SOP data table

Petrifilms	Description of results	Approximate count of colonies
Aerobic bacteria count (AB)		
<i>Enterobacteriaceae</i> (EB)		
Yeast and mold (YM)		