

REDACTED

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Phenolphthalein Test Indicator

(mo/yr)

Revisions		Rev:			
Letter	E.O. Number - Description	Date			
Used On:	Contract#:	Your Company Name			
Prepared By:					
Originator:					
Your Dept:		LABORATORY PROCEDURE			
Your Dept:					
Your Dept:		Your Procedure #			
Your Dept:		Size: A	CAGE: <input type="text"/>	Form Rev: Orig	1 of 5

Your Logo

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1.0 Purpose of Process

A dilute solution of phenolphthalein can be used to detect the presence of alkalinity. The solution is colorless to pH 8.5, pink from approximately pH 8.6 to 8.9 and deep-red above pH 9.0.

2.0 Process Definition

Produce a test indicator to detect the presence of alkalinity above pH 8.5.

3.0 Equipment

- 3.1 [REDACTED]
- 3.2 [REDACTED]
- 3.3 [REDACTED]
- 3.4 [REDACTED]

4.0 Materials

- 4.1 [REDACTED]
- 4.2 [REDACTED]
- 4.3 Phenolphthalein
- 4.4 [REDACTED]
- 4.5 [REDACTED]

5.0 Preparations

No special preparation is required.

6.0 Document Review

- 6.1 Merck Index

7.0 Safety Requirements

7.1 Safety Equipment

The technician preparing the solution should wear the appropriate gloves, lab coat and safety glasses.

7.2 Safety Precautions

If any of the glassware breaks during the procedure, the technician should dispose of the remains in the receptacle in the lab for broken glass. If the technician has any trouble or questions regarding disposal of hazardous materials, he/she should [REDACTED]

8.0 Technician Responsibilities

The technician should understand how to operate all measuring devices used in this procedure. The technician should understand the manipulations and ask questions if they seem unclear.

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The technician is responsible for [REDACTED]

9.0 Process Controls

The test indicator should be produced according to the procedure described herein. Any changes to this procedure should be approved by the lab supervisor and the changes should be processed through configuration control. The lab supervisor should develop a cleaning and maintenance schedule for the equipment to ensure reliable results.

10.0 0.2% V/V Solution

- 10.1 Obtain 1g of phenolphthalein.
- 10.2 Obtain 100ml of 3A ethanol.
- 10.3 Dissolve 1g of phenolphthalein in 100ml of 3A ethanol.
- 10.4 Obtain 1ml of the solute and dilute it in [REDACTED]
- 10.5 Adjust the pH of the solution to 7.8 to 8.0 using [REDACTED]
- 10.6 Readjust the pH to [REDACTED]
- 10.7 Transfer the solution to an air-tight container and mark the container with:

[REDACTED]

- 10.8 Shelf life of the phenolphthalein solution is 1 year when [REDACTED]

11.0 1% W/V Solution - 1

- 11.1 Obtain 1g of phenolphthalein.
- 11.2 Obtain 100ml of 3A ethanol.
- 11.3 Dissolve 1g of phenolphthalein in 100ml of 3A ethanol.
- 11.4 Transfer the solution to an air-tight container and mark the container with:

[REDACTED]

11.5 Shelf life of the phenolphthalein solution is 1 year when [REDACTED]
[REDACTED]

12.0 1% W/V Solution - 2

- 12.1 Obtain 1g of phenolphthalein.
- 12.2 Obtain 95ml of 3A ethanol.
- 12.3 Obtain 5ml of isopropyl alcohol.
- 12.4 Mix ethanol and isopropyl alcohol in 100ml beaker.
- 12.5 Dissolve 1g of phenolphthalein in 100ml of alcohol solution.
- 12.6 Transfer the solution to an air-tight container and mark the container with:

[REDACTED]

12.7 Shelf life of the phenolphthalein solution is 1 year when [REDACTED]
[REDACTED]

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