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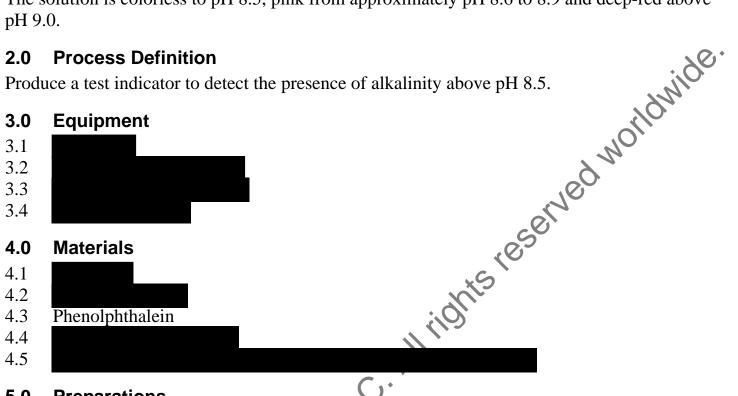
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Purpose of Process

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.

Process Definition 2.0

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



5.0

No special preparation is required.

6.0

6.1

7.0

7.1

Jured.

Arck Index

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

Safety Precautions 7.2

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

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

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 served worl 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
- 10.5 Adjust the pH of the solution to 7.8 to 8.0 using
- Readjust the pH to 10.6
- Transfer the solution to an air-tight container and mark the container with: 10.7



Shelf life of the phenolphthalein solution is 1 year when

11.0 1% W/V Solution - 1

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

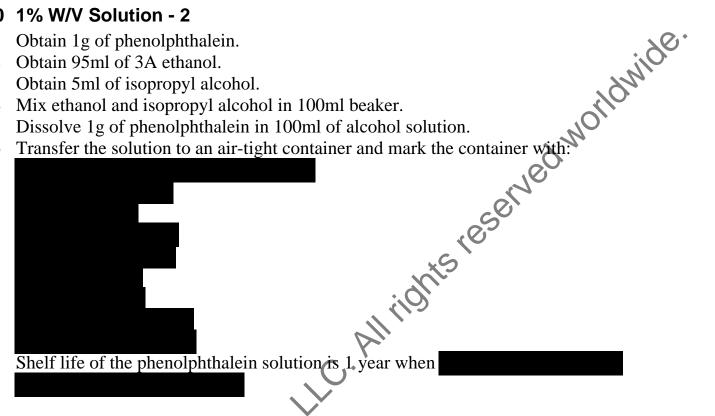


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Shelf life of the phenolphthalein solution is 1 year when 11.5

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
- 12.6



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