

ANALYTIC METHOD FOR DETERMINING pH

DOCUMENT CODE

CK-G03

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1 of 2**1.0 Objective.**

Establish the steps for determining pH in the product.

2.0 Scope.

This method applies for determining the pH (potential of hydrogen) in the product in process and for finished goods.

3.0 Reference document.

F.E.U.M 8th Edition, 2005.

4.0 Responsibilities.

The Laboratory Head is responsible for verifying the application of this document.

The analysis technicians are responsible for exercising the method as described in this document and inform the Head of Quality Assurance, head of Production and Head of research and development of any discrepancies that might arise.

5.0 Terminology.

pH scale:

Series of numbers that express the degree of acidity (or alkalinity) of a solution with the total amount of acid or basis of a material previously determined.

pH:

It is the negative logarithm of the hydrogen ion activity.

6.0 Procedure.**6.1 Sample preparation.**

An approximately 300 gram sample is taken and homogenized inside a bag, the required amount for the test is taken afterwards.

6.2 Materials preparation.

- pH meter
- 600 ml plastic beaker
- Wash bottle
- Distilled water
- CMC or PAC solution to be evaluated

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The pH meter is to be operated as described in document CD-G11 "pH meter operation instructions"

6.3 Test execution.

6.3.1 A solution is prepared (with distilled water) with the product, or use the solution with which viscosity was determined.

6.3.2 Turn the equipment on and insert the electrode of the pH meter in the solution being evaluated, allow the reading to stabilize for approximately 2 minutes.

6.3.3 The data displayed on the equipment is read.

6.3.4 The equipment is turned off, turning the knob to "OFF" for the Corning 610A model and for Corning digital models 430 and 530 the "read" button is pressed, as for the Radiometer pH meter, it stabilizes by itself and there is no need to press any additional buttons.

6.3.5 When finished operating the equipment, the electrode must be washed with distilled water using the wash bottle leaving the electrode inside the buffer pH=4.0 solution.