Results:

Sample Identification: 1, pHenomenal (pH110); bulk sample; 02-08-2012

Solution	Starting pH
pHenomenal (pH110)	12.0
Lactic Acid	2.0
Uric Acid	4.0

Neutralization Test	Acid Volume	Product Volume	Final pH
Lactic Acid neutralization	1 mL	21.75 mL	7.0
Uric Acid neutralization	1 mL	60 μL	7.0

Summary of Findings:

- The stronger acid solution, Lactic acid solution with a pH 2.0, was neutralized at approximately 1:22 ratio of acid to product.
- The weaker acid solution, Uric acid solution with a pH 4.0, was neutralized at approximately 1:0.06 ratio of acid to product.

Report#: 27600-R01v2 Analysis Date: 04-24-2012 Laboratory Results authorized by Sean P. Abbott, Ph.D., Analytical Director Sam Alsott

Natural Link MOLD LAB

4900 Mill Street Suite 3 Reno, NV 89502

Analytical Laboratory Report

pH neutralization Testing Bulk sample

Account Name: Shannon Brown Control ID#: 27600

Project/P.O.: (none listed) Date Received: 02-08-2012

Submitter: Shannon Brown Date Reported: 04-25-2012

Purpose:

To test the pH neutralization capacity of a product (pHenomenal, lot# pH110) against two acid solutions (lactic acid and uric acid).

pH Neutralization Testing Protocol:

- 1. Prepare Acid solutions.
 - 1.1. Lactic acid (CH2CHOHCOOH): Prepare diluted solution from primary acid (liquid, 85%, Anachemia Science).
 - 1.1.1. Mix 10 mL of primary acid with 100 mL distilled water.
 - 1.1.2. pH Measurement of diluted acid solution: pH 2.0 (measured in duplicate with Hanna Instruments pH meter and ColorpHast pH indicator strips).
 - 1.2. Uric acid (C₅H₄N₄O₃): Prepare diluted solution from primary acid (crystalline powder, 99%, Anachemia Science).
 - 1.2.1. Mix 1.0 g of primary acid with 25 mL distilled water.
 - 1.2.2. pH Measurement of diluted acid solution: pH 4.0 (measured in duplicate with Hanna Instruments pH meter and ColorpHast pH indicator strips).
- 2. Alkaline Product: pHenomenal, lot # pH110, liquid concentrate.
 - pH Measurement of product solution: pH 12.0 (measured in duplicate with Hanna Instruments pH meter and ColorpHast pH indicator strips).
- 3. Prepare pH neutralization series.
 - 3.1. Use 1 mL of prepared lactic acid solution in sterile test tubes and add alkaline product (phenomenal) in various increasing volumes until final pH tested is at 7.0 (neutral pH).
 - 3.2. Use 1 mL of prepared uric acid solution in sterile test tubes and add alkaline product (phenomenal) in various increasing volumes until final pH tested is at 7.0 (neutral pH).
 - 3.3. pH Measurement of neutralized solutions measured in duplicate with Hanna Instruments pH meter and ColorpHast pH indicator strips.
- 4. Record pH, volumes added and report.

Report#: 27600-R01v2 Analysis Date: 04-24-2012

Laboratory Results authorized by Sean P. Abbott, Ph.D., Analytical Director

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