

### Introduction

This application note describes the general results when measuring potato flakes using for the Phoenix NIR Analyzers.

### Method

All samples were run on a Phoenix Series NIR Analyzer and calibrations were developed using Alligator Calibration software.

All samples were analyzed unground and at room temperature.

The large cup was used for analysis.

### Results

A wide variety of potato flake samples were used for this experiment.

All results are on as-is basis.

### Definitions

**# of Samples:** Total number of samples for each constituent.

**Range:** Constituent range in the calibration

**R<sup>2</sup>:** Correlation coefficient is the agreement between the wet chemistry and NIR results. Correlation is dependent on lab accuracy and constituent range.

**SECV:** Cross Validation Error of the calibration. This value is approximately what can be expected when using the calibration for routine analysis.

Constituent	# of Samples	Range	R <sup>2</sup>	SECV
Moisture	120	6 – 7.2	0.97	0.10
Reducing Sugar	180	0.3 – 3.5	0.90	0.16

