



# Thermo

ELECTRON CORPORATION

Potentiometric Titration Application Notes

Applications Log # 390B1

## Overview

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<b>Industry</b>	Pharmaceuticals and Cosmetics
<b>Species Measured</b>	Calcium Chloride
<b>Sample</b>	Saline Solution
<b>Sample Size</b>	25mL
<b>Typical Concentration</b>	0.3g/l
<b>Technique</b>	# 6 First Derivative
<b>Electrode</b>	Calcium 9320BN; DJ Ref 900200
<b>Solutions</b>	0.1M calcium std 922006; 0.2M EDTA 650501; 5M sodium hydroxide 650301; acetylacetone; tham; electrode fill 900002, 900003
<b>Sample Prep</b>	Add deionized water, buffer to measured volume of the sample.

## Statistics

<b># of Trials</b>	5	<b>Mean</b>	0.289g/l	<b>%CV</b>	0.65
<b>Analysis Time</b>	2.0minute(s)				
<b>Comments</b>	Rinse the electrodes, stirrer, and dispenser probe between measurements with deionized water.				

## Method Parameters

<b>Sample Volume/Weight</b>	<b>Timed or Stability Readings</b>
<b>Constant Increment</b>	<b>Number of Endpoints</b>
<b>Max Titrant Volume</b>	<b>Desired Units</b>
<b>Molecular weight</b>	<b>Predose</b>
<b>Prestir</b>	<b>Additional Parameters</b>
<b>Reaction Ratio</b>	1.00