



**Overview**

The concentration of potassium in herb powder was determined by Known Addition technique. Aliquots of 0.1 M potassium standard are added automatically to a sample containing a Orion sodium electrode. The Orion 960 Autotitrator PLUS calculates the sample concentration.

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<b>Market</b>	Food and Beverage	<b>Species Measured</b>	Potassium
<b>Sample</b>	Herb Powder	<b>Sample Size</b>	0.01g
		<b>Typical Concentration</b>	7% K w/w
<b>Technique #</b>	2 Multiple Known Addition	<b>Electrode</b>	Potassium Half Cell Electrode 9319BN. Double Junction Ref Electrode 900200.
<b>Solutions</b>	Inner/Outer Fill Solution 900002/900003. 0.1M Potassium Standard. Potassium ISA 931911.		
<b>Sample Prep</b>	Mix sample well. Accurately weigh 1g sample and transfer to a 100 mL volumetric flask. Fill to mark with DI water. Pipet 1mL sample, 50 mL DI water, and 2 mL ISA to a 150 mL beaker. Titrate.		
<b>Statistics</b>			
<b># of Trials</b>	3	<b>Mean</b>	7.32% K w/w
		<b>%CV</b>	1.5%
		<b>Analysis Time</b>	3.1 minute(s)
<b>Comments</b>	Rinse the electrodes, stirrer, and dispenser probe between measurements with deionized water.		

**Method Parameters**

<b>Sample Volume/Weight</b>	0.01 g	<b>Timed or Stability Readings</b>	3.0 mV/min stability
<b>Constant Increment</b>	18.0 mV	<b>Number of Endpoints</b>	
<b>Max Titrant Volume</b>	10.0 mL	<b>Desired Units</b>	% w/w
<b>Molecular weight</b>	39.00	<b>Predose</b>	none
<b>Prestir</b>	1.0 second(s)	<b>Additional Parameters</b>	Total Solution volume = 53.0 mL
<b>Reaction Ratio</b>	1.00		