



**Overview** The concentration of sodium was determined by a Thermo technique called KAP Analysis. Aliquots of sodium standard are added automatically to a sample containing an Orion sodium electrode. The Orion 960 Titrator PLUS calibrates the electrode and calculates the concentration.

<b>Market</b>	Food and Beverage	<b>Species Measured</b>	Sodium
<b>Sample</b>	Breeding Mix	<b>Sample Size</b>	1.5g
		<b>Typical Concentration</b>	7mg/g
<b>Technique #</b>	2 Multiple Known Addition	<b>Electrode</b>	Ross Sodium 8411BN; Ross Ref 800300
<b>Solutions</b>	Na Reconditioning Solution. 841113; Na ISA 841111; Electrode fill 900010; Na electrode storage solution 841101		
<b>Sample Prep</b>	Accurately weigh about 1.5 g of breeding into an analysis beaker. Pipet 100 mL of deionized water and 10 mL of sodium ISA into the beaker. Sample is now ready for analysis.		
 <b>Statistics</b>			
<b># of Trials</b>	6	<b>Mean</b>	7.348mg/g
		<b>%CV</b>	1.68
		<b>Analysis Time</b>	3.0minute(s)
<b>Comments</b>	Rinse the electrodes, stirrer, and dispenser probe between measurements with prepared wash solution.		

### Method Parameters

<b>Sample Volume/Weight</b>	1.5 g	<b>Timed or Stability Readings</b>	10.0 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>	22.99 g	<b>Predose</b>	none
<b>Prestir</b>	120.0 second(s)	<b>Additional Parameters</b>	Total Solution Volume = 110.0 mL, Precision = 2.0%
<b>Reaction Ratio</b>	1.00		