

## Elyte® - 3 Kit Thiocyanate and Colorimetric Method

### Intended Use:

Sodium and Potassium are the major cations of extracellular and intra cellular fluids respectively. Sodium maintains the normal distribution of water and the osmotic pressure in the various fluid compartments. Potassium influences the acid base balance and osmotic pressure including water retention. Increased sodium levels are found in severe dehydration and excessive treatment with sodium salts. Decreased levels are found in severe polyuria, metabolic acidosis, diarrhea and renal insufficiency. Increased potassium levels are found in renal failure, dehydration, shock and adrenal insufficiency. Decreased levels are found in malnutrition, gastro-intestinal fluid loss and hyperactivity of the adrenal cortex. Elyte® - 3 kit uses the thiocyanate & colorimetric method to determine chloride, sodium and potassium and chloride in serum. Chloride is a major extracellular anion and maintains the cation / anion balance between intra and extra cellular fluids, mostly as a salt with sodium. Increased levels are usually found in dehydration, kidney dysfunction and anemia. Decreased levels are usually found in extensive burns, vomiting diarrhea, intestinal obstruction & salt losing nephritis.

### Elyte® - 3 Kit components:

#### Sodium: Colorimetric Method

L1	Precipitating Reagent
L2	Acid Reagent
L3	Color Reagent

#### Potassium: Colorimetric Method

L1	Potassium Reagent
S	Na+/K+ Standard (150/5 mmol/l)
Other Accessories	Package Insert

#### Chloride: Thiocyanate Method

L1	Chloride Reagent
S	Chloride Standard (100 mmol/l)
Other Accessories	Package Insert

#### System Parameters, Na<sup>+</sup>

<b>Reaction</b>	: End Point	<b>Read Time</b>	: ---	<b>Interval</b>	: ---
<b>Wavelength</b>	: 530 nm	<b>No. of read.</b>	: ---	<b>Sample Vol.</b>	: 0.02 ml
<b>Zero Setting</b>	: Reagent Blank	<b>Reagent Vol.</b>	: 1.10 ml	<b>Linearity</b>	: 200 mmol/l
<b>Incub. Temp</b>	: R.T.	<b>Standard</b>	: 150 mmol/l	<b>Units</b>	: mmol/l
<b>Incub. Time</b>	: 5 min.	<b>Factor</b>	: ---		
<b>Delay Time</b>	: ---	<b>React. Slope</b>	: Decreasing		

#### System Parameters, K<sup>+</sup>

<b>Reaction</b>	: End Point	<b>Read Time</b>	: ---	<b>Interval</b>	: ---
<b>Wavelength</b>	: 630 nm	<b>No. of read.</b>	: ---	<b>Sample Vol.</b>	: 0.02 ml
<b>Zero Setting</b>	: Reagent Blank	<b>Reagent Vol.</b>	: 1.00 ml	<b>Linearity</b>	: 8.0 mmol/l
<b>Incub. Temp</b>	: R.T.	<b>Standard</b>	: 5 mmol/l	<b>Units</b>	: mmol/l
<b>Incub. Time</b>	: 5 min.	<b>Factor</b>	: ---		
<b>Delay Time</b>	: ---	<b>React. Slope</b>	: Increasing		

#### System Parameters, Cl<sup>-</sup>

<b>Reaction</b>	: End Point	<b>Read Time</b>	: ---	<b>Interval</b>	: ---
<b>Wavelength</b>	: 505 nm	<b>No. of read.</b>	: ---	<b>Sample Vol.</b>	: 0.01 ml
<b>Zero Setting</b>	: Reagent Blank	<b>Reagent Vol.</b>	: 1.00 ml	<b>Linearity</b>	: 70-40 mmol/l
<b>Incub. Temp</b>	: R.T.	<b>Standard</b>	: 100 mmol/l	<b>Units</b>	: mmol/l
<b>Incub. Time</b>	: 2 min.	<b>Factor</b>	: ---		
<b>Delay Time</b>	: ---	<b>React. Slope</b>	: Increasing		

Storage / Stability	Temperature	Duration
Unopened kit	R.T.	24 Months
Opened Kit (Unmixed)	R.T.	24 Months
In use stability (Na <sup>+</sup> and K <sup>+</sup> )		Use immediately
(Cl <sup>-</sup> )	R.T.	7 Days

Available Pack Sizes
15 Tests