

Detection of K and Na in Coating Syrup

1 Sample solution preparation :

After grinding, 0.1g ground sample (precision to one ten thousandth) was weighed and placed into a 100mL volumetric flask, made up to the volume with deionized water, shaken and spare for later use.

2 Experimental equipment and reagents :

AA7000 series atomic absorption spectrophotometer (with Na, K hollow cathode lamp, EWAI Inc.)

Potassium standard solution (National Reference Materials Research Center)

Sodium standard solution (National Reference Materials Research Center)

3 Instrument conditions

Parameter	Wavelength (nm)	Slit width (nm)	Burner height (mm)	Fuel gas flow rate (L/min)	Lamp current (mA)	Flame type
K	766.5	0.4	10	1.3	3	Air - acetylene
Na	589.0	0.2	10	1.3	2	Air - acetylene

4 Standard solution preparation

Each 100 mL standard solution should be added with 1.5 mL 100 g/L cesium chloride solution.

Element	Concentration ($\mu\text{g/mL}$)				
Na	0	0.02	0.04	0.08	0.12
K	0	0.04	0.08	0.12	0.16

5 Standard curve

