

APPLICATIONS OF FLAME PHOTOMETRY

Applications

- Flame photometer has both quantitative and qualitative applications.
- Flame photometer with monochromators emits radiations of characteristic wavelengths which help to detect the presence of a particular metal in the sample.
- In agriculture, the fertilizer requirement of the soil is analyzed by flame test analysis of the soil.
- In clinical field, Na^+ and K^+ ions in body fluids, muscles and heart can be determined by diluting the blood serum and aspiration into the flame.
- Analysis of soft drinks, fruit juices and alcoholic beverages can also be analyzed by using flame photometry.

APPLICATIONS:

- To estimate sodium, potassium, calcium, lithium etc. level in sample of serum, urine, CSF and other body fluids.
- Flame photometry is useful for the determination of alkali and alkaline earth metals.
- Used in determination of lead in petrol.
- Used in the study of equilibrium constants involving in ion exchange resins.
- Used in determination of calcium and magnesium in cement.