

## 【元素分析儀】

元素分析儀(Perkin Elmer 2400 Series II CHNS/O Elemental Analyzer)系統，可檢測受測原料之碳、氫、氧、氮、硫的重量百分比，對於確認有機物的成分是非常重要的資料。其原理為利用可燃性元素燃燒後產生氧化物氣體之特性，經由吸附、脫附與分離後，再以檢測器定量換算求出樣品乾基中之碳(Carbon, C)、氫(Hydrogen, H)、氮(Nitrogen, N)與硫(Sulfur, S)元素組成百分比，量測誤差約 0.3%，而氧(Oxygen, O)元素之百分比為計算扣除獲得。

## 【Lab-scale Flame Resistance Test Furnace】

The element analyzer (Perkin Elmer 2400 Series II CHNS/O Elemental Analyzer) system can detect the weight percentages of carbon, hydrogen, oxygen, nitrogen, and sulfur in the tested material and it is very important information to confirm the composition of organic matter. The principle is to use the characteristics of flammable elements to produce oxide after burning. After adsorption, desorption and separation, the quantitative composition of carbon (C), hydrogen (H), nitrogen (N) and sulfur (S) in the sample on the dry basis is calculated by the quantitative conversion of the detector. The measurement error is about 0.3%, and the percentage of oxygen (O) is calculated by difference.



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