Method No.US-836-87 A

Nicotine in Tobacco Extracts

Range: 0.2 - 50 mg/L Nicotine

Description

This automated method for the determination of nicotine in tobacco extracts is based upon the cleavage of the pyridine group from the nicotine molecule by cyanogen bromide. The cleavage product reacts with buffered aniline to produce a yellow dye which is measured colorimetrically at 460 nm.

Performance data using aqueous standards

Sensitivity: extinction at 50 mg/L Nicotine	0.35 AU
Reagent Absorbance	Zero
Coefficient of Variation	
30 Replicated at 30 mg/L	0.43%
Pooled Standard Deviation (5 levels)	0.18 mg/L
Correlation Coefficient (6 Points)	0.999
Sampling rate	120/hour
Sample: wash ratio	5:1

Note: the above performance specifications were developed with the exclusive use of genuine Bran+Luebbe parts and consumables.