

# Isolation of Nicotine by Chemical Methods: Application in Various Sample with Non- Aqueous Acid- Base Titration: A Review

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**Abstract:** *Determination of nicotine content This study aimed to quantify and compare the nicotine content in locally sourced tobacco leaves and commercially available cigarettes employing two distinct extraction methods. Ten samples were analysed: one from unprocessed tobacco leaves and nine from various cigarettes brands. Nicotine extraction is performed chemical and a non-aqueous acid alkali extraction technique. Quantitative analytical study revealed that unprocessed tobacco leaves contained higher nicotine concentration compared to processed tobacco in cigarettes. This study highlights the need for regulatory measure to monitor nicotine contents in tobacco products particularly local brand that use tobacco leaves directly. Among this method non aqueous acid -base titration yielded more efficient recovery of nicotine.*

**Keywords:** Nicotine, cigarette sample, isolation, acid-base titration, tobacco leaves, solution, review

