



Solutions for Tobacco

Wet Chemistry Analyses for Producers of Tobacco

Alkaloids (total as Nicotine) and Total Nitrogen in Tobacco

OP SIS LiquidLINE has solutions for determination of Total Alkaloids in Tobacco. The samples are digested with sulphuric acid to convert nitrogen into ammonium sulphate. The samples are further distilled by steam distillation followed by titration.

Our Solution

- The KjelROC Digestor Advanced motor lift makes the digestion efficient and saves valuable operator time.
- OP SIS LiquidLINE Kjeldahl catalyst tablets and glass tubes ensure stable and reliable results.
- KjelROC Analyzer with integrated Titration offers titration with low relative standard deviation and wireless communication saving time and costs.

Standards
AOAC 960.07

Application Notes
LA1000 Application Guide Kjeldahl
Further Notes on request

Nitrates in Tobacco

Total oxidised Nitrogen, Nitrite (NO_2) and Nitrate (NO_3), can be determined with OP SIS LiquidLINE instruments. Determination is done in two steps, first to determine free and fixed ammonia and second step with Devarda's Alloy.

Our Solution

- KjelROC Analyzer with integrated Titration offers titration with low relative standard deviation and wireless communication saving time and costs.

Standards
AOAC 959.04

Application Notes
LA1000 Application Guide Kjeldahl
Further Notes on request

Extraction from Tobacco to determine Alkaloids

Determination of nicotine components is important in tobacco production. A solvent AOAC-modified extraction method can be used to extract alkaloids from Tobacco. Alkaloid components can thereafter be measured with gas chromatography. OP SIS LiquidLINE provides instruments for Hot Solvent extraction.

Our Solution

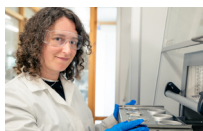
- The SoxROC extraction unit with batch handling and full automation facilitates the extraction.
- The instrument provides significant time savings versus cold extraction and a recovery of over 90% of used solvents.

Standards
Based on AOAC 960.08

Application Notes
LA1002, Appl. Guide Solvent Extraction
Further Notes on request

OPSIS LIQUIDLINE - INNOVATIVE WET CHEMISTRY

OPSIS AB, founded in 1985 in Sweden, took the concept of measuring gases with light and developed it into a commercially viable product. In 2013, we took another step and moved our innovative technology into Wet Chemistry and Liquids.



APPLICATION LABORATORY READY TO ASSIST

We have our own Wet Chemistry laboratory in Sweden, ready to assist you in any challenges you might have. We do not only test your instrument prior to shipment but we can also develop applications and provide assistance to optimise your methods.



CUSTOMISED TRAINING AND SUPPORT FROM SWEDEN

A combination of young engineers and very senior advisors, most of them with over forty years of experience in wet chemistry instruments, is a powerful combination. We can offer dedicated and skilful technical and application support on-site as well as dedicated customer sessions on internet. You are never alone when selecting OPSIS LiquidLINE.



LATEST IN MAINTENANCE

Our products include maintenance recommendations as well as hands-on guides on how to perform analyses. To raise the standard we have implemented the concept of QR-codes on components for tracking component failures, advanced service menus with service tracking and capabilities for remote login and support.

A COMPLETE PORTFOLIO



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