

PROJECT TITLE : ANALYTICAL INVESTIGATIONS  
PERIOD COVERED : FEBRUARY 21st to MARCH 23rd  
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1. PROJECT NINO

Potassium, calcium, sulfate, phosphate, C<sub>1</sub>-C<sub>6</sub> alcohols, acetone, acetoin, total carbon and total organic carbon have been determined in 22 Burley and Maryland extracts.

2. METAL ANALYSES AND ISH-DETERMINATION

Potassium and calcium in 48 tobacco lot samples have been analyzed.

The SH-Index for 29 cigarette brands was determined.

3. ANALYSIS OF VOLATILE N-NITROSAMINES IN TOBACCO SMOKE

3.1 Nitrosamine values for sidestream smoke reported recently<sup>1)</sup>, were obtained in a special sidestream smoke apparatus under standard smoking conditions (1 puff/min; puff duration/2 sec; puff volume 35 ml) and an air flow through the sidestream smoke apparatus (chamber volume of 200 ml) of 25 ml/sec. These conditions are reported to give the same TPM and nicotine values in the mainstream smoke that one obtains from smoking the cigarettes in the open air under standard smoking conditions.

The chemical characteristics of the mainstream smoke of MLF, Kentucky 2R1 and of a German Monitor cigarette were investigated.

The cigarettes were smoked under standard conditions in the open air by QC (a), and under standard conditions in the sidestream smoke apparatus using a single-channel smoker (b).

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