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AUTOMATED PROCEDURE FOR THE DETERMINATION  
OF ALIPHATIC ALDEHYDES IN SMOKE

LABORATORY REPORT NO. L.142-F

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AUTOMATED PROCEDURE FOR THE DETERMINATION  
OF ALIPHATIC ALDEHYDES IN SMOKE

(Laboratory Report No. L.142-F)

SUMMARY

An automated procedure has been developed for the determination of aliphatic aldehydes in cigarette smoke, using the Technicon Auto-Analyser. The method uses the yellow colour formed when aliphatic aldehydes react with methylamine and o-aminobenzaldehyde.

The procedure is reproducible and rapid, allowing 25 samples to be analysed per hour with a coefficient of variation of  $\pm 4\%$ .

The efficient utilisation of the Auto-Analyser for smoke analyses depends upon the design and development of a suitable 30 port smoking machine and this step is recommended.

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