

Research & Development Establishment,
British-American Tobacco Co. Ltd.,
SOUTHAMPTON.

RET/CAL/46B-11

20th June 1969.

STUDIES ON THE FILTRATION OF BENZO[a]PYRENE: PART 4 PROGRESS
REPORT JUNE 1968-MARCH 1969

(Laboratory Report No. L.312-R)

SUMMARY

The examination of filters which might remove benzo[a]pyrene selectively from smoke has continued. The filters examined were made from paper, paper with additives, polyurethane foam and granular materials (e.g. carbon and polyurethane).

Selective filtration has still not been achieved, though these further experiments have confirmed the previously noted small negative filtration effects, i.e. benzo[a]pyrene is filtered from smoke less efficiently than is TPM.

With one particular filter design, a co-axial filter, an interesting result was noted. This was the apparent destruction of virtually all the available nicotine. This is of interest in the context of transfer and pyrolysis reactions.

110083980