

TGM/MM/AGP

14th June, 1988

**BAT (UK&E) R&D CENTRE**

**PROTOCOL: MANUFACTURE OF TEST CIGARETTES**

**Purpose:**

Preparation of cigarettes containing known amounts of methoprene, to allow evaluation of effects of methoprene in cigarette smoke by inhalation.

**Method:**

The cigarettes will be manufactured according to current commercial specifications using commercial sources of cured tobacco, paper and filter materials. The methoprene formulation used will be that currently applied to tobacco for the control of tobacco beetle ("Kabat").

The tobacco will be processed using standard industry conditioning, cutting and making machine equipment to produce cigarettes of consistent weight, pressure drop and delivery of smoke constituents.

The cigarettes will be subjected to standard methods of chemical and physical analysis to demonstrate that within each batch their properties will be consistent and fit for the purpose of achieving known and comparable chamber TPM concentrations during the test.

**Cigarettes:**

Three cigarettes will be produced, each printed with its code of identification, in batches to provide 25,000 cigarettes for the test, plus 1000 to provide for chemical and physical analysis:

- |      |  |
|------|--|
| Code | Control cigarette, no addition of methoprene   |
| Code | Cigarette containing methoprene at a target concentration of 10 ppm by weight on the tobacco.  |
| Code | Cigarette containing methoprene at a target concentration of 100 ppm by weight on the tobacco. |

**Cigarette Specification (All Codes)**

**2001160852**

**Tobacco blend:**

Virginia flue-cured tobacco using a mixture of lamina (80%) and stem (20%). Cuts per inch 30. Target density 260 mg/cm<sup>3</sup>, tobacco rod weight 760 mg.