

Project No: T-1100  
Project Title: Evaluation of Various Types of Filter on the du Maurier K.S. Cigarette.  
Object: To determine the subjective and analytical characteristics of du Maurier K.S. tobacco with three cellulose acetate filters of different cross sections.  
Personnel Involved: M.T. Schiff, R.R. Smith

1st Quarter 1971:

Three samples of cigarettes manufactured with du Maurier K.S. tobacco and filters of three different cross sections were analysed for leaf and smoke constituents. The control sample incorporated the regular "Y" section filter, whereas the two test samples used filters of "X" and "dog-bone" cross sections.

The results indicated that neither of the two experimental filters altered the smoke yields of du Maurier K.S. tobacco to any significant extent, i.e. the filtration efficiencies of the experimental filters were consonant with that of the control.

No differences were perceived between any of the samples with respect to the subjective properties investigated (i.e. irritation to the mouth, lips and tongue, irritation to the throat, irritation to the nose, quantity of taste, quality of taste, preference) indicating that either of the special filter tows tested could be substituted for the regular filter tow on du Maurier K.S. without perceptibly affecting the subjective properties investigated.

Project Title: Modification to du Maurier Smoke Yields.  
Object: To reduce the Canadian tar levels of du Maurier K.S. to 20mg whilst maintaining smoke nicotine yields and decreasing irritation.  
Personnel Involved: R.R. Smith, M.T. Schiff

2nd Half 1971:

Three samples were manufactured. One regular du Maurier K.S. as a control and two sample leaf recipes LB88A and LB90A both with 12P paper.

Analytical data indicated that whilst both sample blends yielded suitable Canadian tar levels, only LB88A achieved the nicotine criterion. This was the sample submitted, together with the control for subjective evaluation. The smoking tests indicated that LB88A met the project objective of

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decreased irritation relative to regular du Maurier K.S. and it was the more acceptable sample with respect to other subjective properties. As a result, this recipe was recommended as suitable for the project requirements.

The original concept of altering du Maurier yields has shifted to one of a new brand development. Presently, the use of this LB88 A recipe is being pursued under the name Project Spec, more particularly in the area of packaging (see T-5675).

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