

Mrs. M. Ayles

G. Smith

GS/DM/46D

16th June, 1988

I understand from our discussions that you wish to evaluate the influence of a number of additives applied at the 10% level to cigarettes. Each additive is to be added singly and it is proposed that in limited panel testing any one panellist will smoke a maximum of 20 cigarettes. The additives you listed are as follows:

1. Lactic Acid  
Allowed at the 2% level by the ICSH (4th Report). As your proposed level is 5 x above this value it would be prudent to evaluate on intermediate level first in order to ensure there is no adverse reaction.
2. Potassium Sorbate  
In general use potassium sorbate is applied at levels of less than 1%, it is thus unlikely that a 10% inclusion could be recommended without more detailed evaluation such as smoke chemistry. The ICSH allow potassium sorbate at 0.5%.
3. Propylene Glycol  
Maximum level permitted by the ICSH is 6%, however it may be included at 10% for limited panel testing.
4. Glycerol  
Allowed by the ICSH at up to 10% thus may be evaluated as described.

The level of inclusion requested is an order of magnitude greater than generally agreed limits (exception is glycerol). I also understand that changes in smoke chemistry may include increased formaldehyde delivery and, in blended products, hydrogen cyanide. Thus full consideration should be given to using as low a level of additive as possible to meet the aims of the project. In addition, due to the elevated levels, taking the work further would call for more detailed smoke chemistry, plus other supporting evidence to show that the modification is acceptable.

GA

G. SMITH

c.c: Dr. R.R. Baker  
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