

BTC work programme file

**BENCH MARKING PROCEDURES FOR APPLICATION OF
GENOTOXICITY ASSAYS**

PROJECT 93.11.103

Objective - To apply standard protocols with 4 in vitro genotoxicity assays to representative cigarettes in order to establish:

- a. variability of response
- b. reproducibility of response
- c. effective operational control and use of the data set.

The cigarettes included in the following tables are candidates for inclusion in the above project.

A range of commercial cigarettes have been proposed on the basis of the maximum variation that may be encountered in products requiring examination. BAT brands have been selected on the basis of knowing the design features incorporated into these products.

The optimum number of products that may be examined is currently considered to be 10. Consequently, 10 products (shaded) representing the maximum variation have been highlighted for inclusion. However, part of the project is to determine if 10 is the maximum that may be examined and consideration if this may be increased.

All stocks necessary to complete the study will be purchased together. Those required for the repeat study, 6 months after completion of the first, will be deep frozen. It is not the purpose of this study to examine variation in biological responses to smoke condensate as a result of any changes in materials available to produce a particular product at any one time.

A limited series of non BAT brands are also listed for consideration of inclusion if required, though a lack of detailed design knowledge would not permit as great variation to be examined as with the BAT brands.

As part of the study, a range of chemical analyses of compounds considered of appropriate by outside bodies will be carried out including.

Particulate delivery
pH of tar
Nicotine
Phenols
Catechols
Tobacco specific Nitrosamines

Carbon monoxide
Nitrogen oxides
Hydrogen cyanide
Volatile hydrocarbons
Aldehydes

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BAT Brands			
Virginia	Modified Virginia		US- Style
A 15mg Flue cured 78 % Stem 19 % Recon 3 %		F 15mg US - style carbon filter 8% ammoniated recon.	K 12-15mg
B 11mg Ventilation 25% Flue cured 66% Exp. Fc 12% Stem 19% Recon 3%	D 9mg Ventilation 33% Flue cured 50% Exp fc 16% Burley 6% Stem 19%	G 11mg 50 maryland tobacco.	L 10-13mg
C 3mg Ventilation 66.5% Flue cured 78% Stem 22%	E 3.9mg high mod. Ventilation 28% Flue cured 20% Case Burley 29% Oriental 15% Exp fc 16% Stem 20%	H Firecured brand from Kenya. 78% Firecured tobacco.	
		I flue cured product with amarelinho tobacco.	
		J 14 mg 14% dark air cured tobacco	

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BAT Brands			
Virginia	Modified Virginia		US- Style
B&H General Trade 15mg Flue cured 78 % Stem 19 % Recon 3 %		Venezuela. Belmont extra suave. 15mg US - style carbon filter 8% ammoniated recon.	Viceroy 12-15mg
B&H SF Sudan 11mg Ventilation 25% Flue cured 66% Exp. Fc 12% Stem 19% Recon 3%	B&H/SEFK Mid. East 9mg Ventilation 33% Flue cured 50% Exp fc 16% Burley 8% Stem 19%	Mary Long 11mg 50 maryland tobacco.	Viceroy Lights 10-13mg
B&H Ultimate Lights S.Africa 3mg Ventilation 66.5% Flue cured 78% Stem 22%	B&H Ultra mild 3.9mg high mod. Ventilation 28% Flue cured 20% Case Burley 29% Oriental 15% Exp fc 16% Stem 20%	Nyota Firecured brand from Kenya. 78% Firecured tobacco.	
		Hollywood - Brazil flue cured product with amarelinho tobacco.	
		Boule Nationale 14 mg 14%dark air cured tobacco	

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NON BAT BRANDS		
Virginia	Modified Virginia	US-Style
Dunhill 15-16 mg	P.Stuyvesant Holland / Belgium 13 mg	Marlboro 12-15mg
Rothmans Lights 9-10mg		Merit 8mg
Embassy 4-6mg	P.Stuyvesant Extra mild 4mg	Merit Ultra Lights 4mg

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