

RESEARCH & DEVELOPMENT ESTABLISHMENT—BRITISH-AMERICAN TOBACCO CO., LTD., SOUTHAMPTON

Year: 66

Month	Date	Tin Number	DESCRIPTION OF SAMPLE	M. CROSSLING MOISTURE TEST
MARCH	2 nd		<p>MOISTURE SAMPLES 15x CIGS.</p> <p>276 C.</p> <p>SAMPLE 1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p>	<p>14.3</p> <p>14.3</p> <p>14.4</p> <p>14.5</p> <p>14.3</p> <p>14.4</p> <hr/> <p>AVG. C 14.36</p>
			<p>WEIGHT OF 20 CIGS. 21.4 grams.</p> <p>" " PAPERS 1.80 grams.</p>	<p>- 3.7%</p>
			<p>130 CIGS IN BOX.</p>	
			<p>Cigs per lb 423.9 - 50.1 224</p>	

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RESEARCH & DEVELOPMENT ESTABLISHMENT—BRITISH-AMERICAN TOBACCO CO., LTD., SOUTHAMPTON

Year : _____

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Telephone conversation with J.K. Whittaker 2nd March 66.

H₂O soluble fraction of carbonate.

A small amount of acetic acid is added to the carbonate in the trap. Condensate is poured into a large volume of chilled water. Most of the insoluble carbonate sticks to the walls of the vessel. The water contains a suspension of fine particles which are removed by filtration through a wet filter paper.

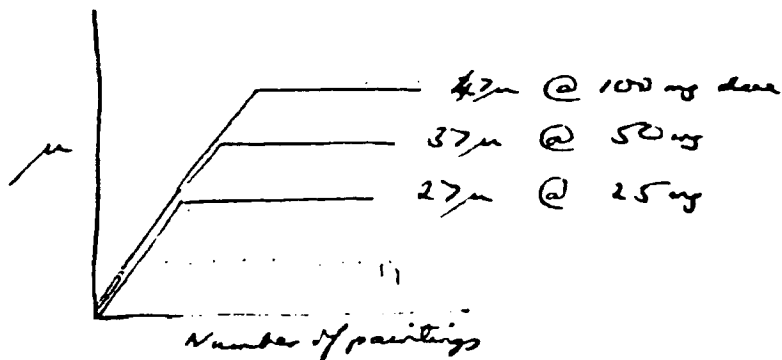
CAW

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Short-term Hyperplasia Test.

Hofmann telephoned from Battelle on 28th Feb. — mainly to enquire whether the Goblet Cell Report had arrived but also to point out that he had a lot of mice and no experiments planned. He wants me to telephone him by 11.00 am on Wednesday 2nd March with some suggestions.

① We are waiting the results on a dose-response experiment using both the Ash & Harrigate mice. I sent you a note recently in which the few recent results had been combined with the earlier results and which seemed to indicate



ie same slope but different plateau. Planimetric area as measure?

② With five paintings, however, we only have two measurements in the recovery period & its plateau is not clearly defined. Also the recovery increases with number of paintings.

Suggestion 1

Ash mice : 276R cigarettes: Fresh condensate: 50mg dose

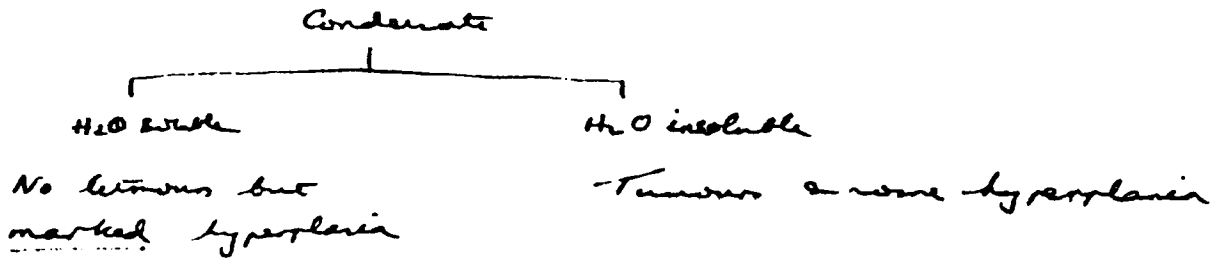
Experiment 1	:	one painting followed by 6 recovery measurements	48 mice
..	2	two	54 mice
..	3	three	60 mice
..	4	four	66 mice
..	5	five	70 mice
			298 mice

I think we probably only have 250 mice & we will have

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to do more pricing eg. 5 recovery measurement; cut down number of controls etc.

③ I think that the Harvath experiment with the water-soluble / water-insoluble condensate is important. As I understand it

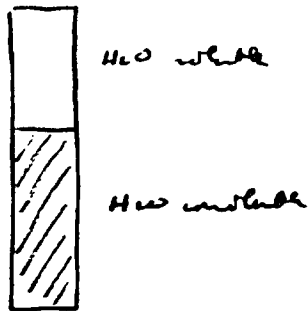


Suggestion 2

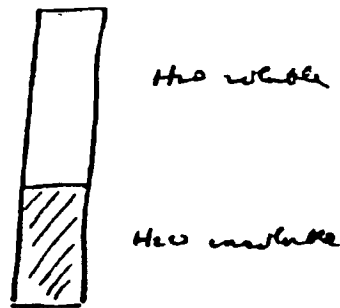
Confirm this experiment.

Assuming confirmation is obtained it would argue that condensate contains material which are not very active on a long-term test but which are very active in the hyperplasia test.

Hypothesis



Condensate A



Condensate B

Hyperplasia B > A
 - Tumours A > B

i.e. misleading result from the hyperplasia test.

It would not surprise me if the necrosis was greatly reduced if the H₂O insoluble fraction only is examined.

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11/11/99
Don response will be include fraction.

④ Suggestion 4

As 3 but using Neutral fraction which may be more attractive on practical grounds.

⑤ I think that one of Hoffmann's worries is that Kerdell has very little to do. ∴ am going to suggest that she tries smoking CIVOL cigarette at 10ml puff & 50ml r 11. to get idea of delivery & reproducibility, trapping efficiency of traps etc. OK?

CIA.

IWH had a look through this.
He would like to see in the near future an examination of

(a) Benzpyrene

(b) Smoke + benzpyrene.