

BAT (U.K. & Export) Ltd.,  
Research & Development Centre,  
SOUTHAMPTON.

AGB/DM/LL/46D

COMPARISON OF SPECIFIC AMES MUTAGENIC  
ACTIVITY OF SIDESTREAM CONDENSATE  
FROM PAD AND FISHTAIL CHIMNEY WALL  
REPORT NO. T.175

22.1.1987

AUTHORS: A.G. Barnes  
E.D. Massey

CO-WORKER: A.E. Hill

SECTION LEADER: T.G. Mitchell

ISSUED BY: R.R. Baker

DISTRIBUTION:

Dr. R. Binns	Copy No. 1
Mr. A.L. Heard	" " 2
Mr. E.E. Kohnhorst	" " 3, 4
Dr. P.J. Dunn	" " 5
Dr. S.R. Massey	" " 6
Mr. R.S. Nicholls	" " 7, 8
Herr E. Rittershaus	" " 9
Dr. E. Kausch	" " 10
Dr. C.J.P. de Siqueira	" " 11
Mr. H.I. Thomsen	" " 12
Mr. R.F. Gilderdale	" " 13
Library	" " 14, 15

COPY NO.

© 1986 BAT (U.K. and Export) Limited. This report must not be copied or shown to unauthorised persons

400909759

BAT (U.K. & Export) Ltd.,  
Research & Development Centre,  
SOUTHAMPTON.

AGB/EDM/LL/46D

22nd January, 1987

COMPARISON OF SPECIFIC AMES MUTAGENIC ACTIVITY OF SIDESTREAM  
CONDENSATE FROM PAD AND FISHTAIL CHIMNEY WALL

REPORT NO. T.175

SUMMARY

The Ames specific mutagenic activity of sidestream cigarette smoke condensate from the Cambridge filter pad, fishtail chimney wall and combined fractions were compared.

Results showed that the activity of the pad condensate was greater than that of the chimney wall. The combined fraction had an activity between the two and at a level indicating a purely additive effect.

In addition, the efficacy of two solvents, dimethylsulphoxide (DMSO) and isopropylalcohol (IPA), in the Ames test system were compared. Results showed that DMSO was the most useful of the two in this system.

-i-

1986 B A T (U.K. and Export) Limited. This report must not be copied or shown to unauthorised persons.

400909760

KEY WORDS

Ames Test

Mutagenicity

*Salmonella Typhimurium*

Smoke Condensate

Sidestream Smoke

Smoke Trapping Systems

-ii-

1986 B.A.T. (U.K. and Export) Limited. This report must not be copied or shown to unauthorised persons.

400909/61