

Sir Charles Ellis
Millbank

C.I. Ayres

CIA/CAL/46D-2

6th April 1966

Dear Sir Charles,

Battelle: Short-term Hyperplasia Test

I am enclosing a graph of the results obtained at Battelle on a series of 'dose-response' experiments.

Two types of mice were used:

- (a) ASL Ltd. mice - supplied by Battelle's normal Animal Supply House.
- (b) 'Harrogate' mice - obtained via TRC from the Huntingdon Research Centre.

In each experiment five applications of 24 hour old condensate were made i.e. only two measurements (144 and 168 hours) were taken after the painting had ceased.

The sections from the experiment with a dose of 100 mg showed extensive necrosis and the results given must be regarded only as a tentative guide.

The results obtained with the solvent alone are not strictly comparable in that they were obtained with an earlier batch of ASL Ltd. mice. They demonstrate, however, that the solvent does not cause an extensive thickening of the epidermis.

As an alternative way of considering the results, the 'area under the curve' has been calculated, and a suitable correction made from the initial thickness as defined by the control sections. This area (expressed in micron-days) which is due to the thickening of the epidermis might serve as an activity-rating of the condensate. On this basis the results show:

Type of mice	Dose (mg)	Area activity-rating (micron-days)
ASL Ltd	Solvent	9
ASL Ltd	12.5	52
"Harrogate"	25	80
ASL Ltd	25	90
"Harrogate"	50	148
ASL Ltd	50	137
"Harrogate"	100	(171)

I hope that this information will be of interest to you.

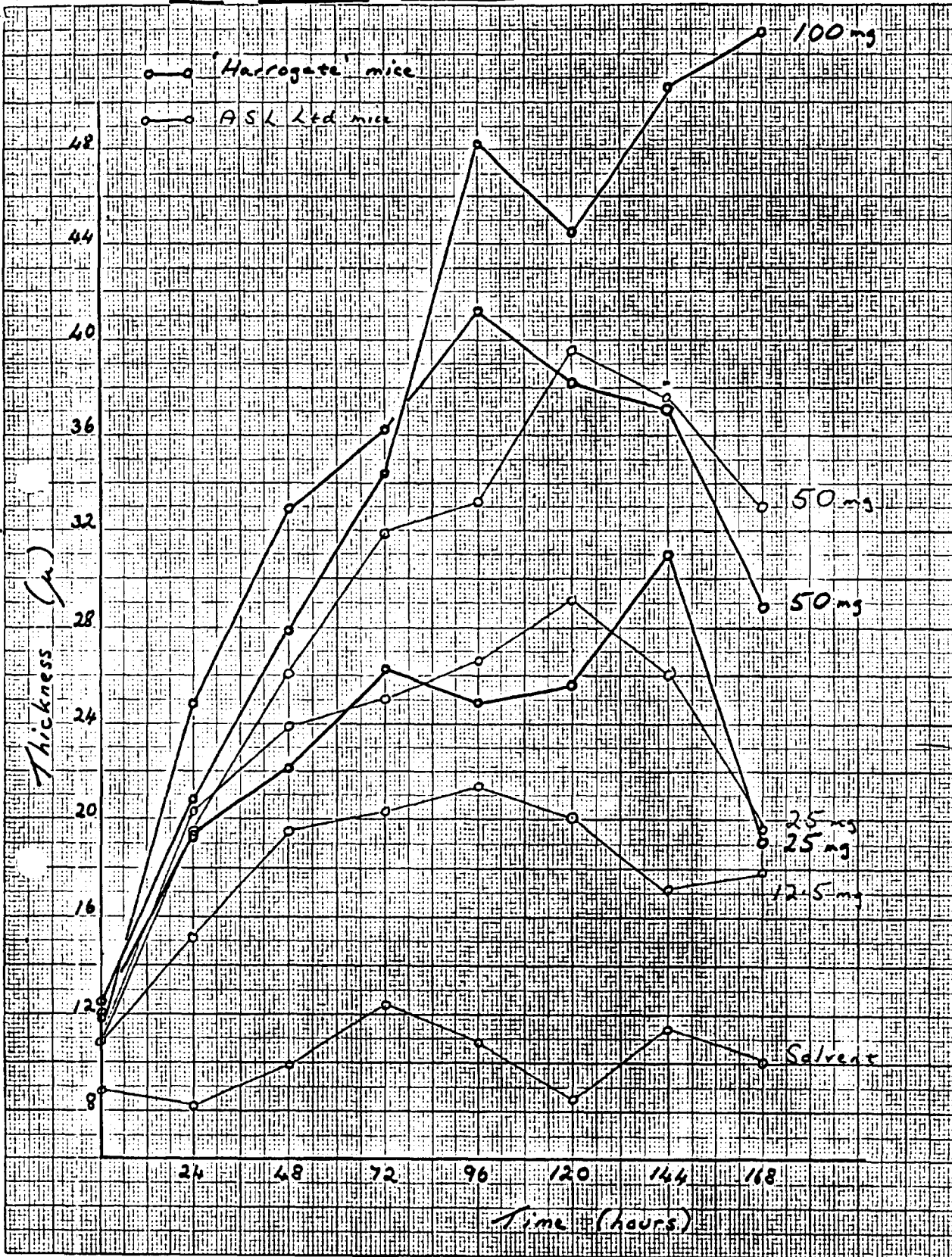
Yours sincerely,



C.I. Ayres

105610780

Dose-response experiments



105610781

Sir Charles Ellis
Millbank

C.I. Ayres

CIA/CAL/46D-2

6th April 1966

Dear Sir Charles,

Battelle: Short-term Hyperplasia Test

I am enclosing a graph of the results obtained at Battelle on a series of 'dose-response' experiments.

Two types of mice were used:

- (a) ASL Ltd. mice - supplied by Battelle's normal Animal Supply House.
- (b) 'Harrogate' mice - obtained via TRC from the Huntington Research Centre.

In each experiment five applications of 24 hour old condensate were made i.e. only two measurements (144 and 168 hours) were taken after the painting had ceased.

The sections from the experiment with a dose of 100 mg showed extensive necrosis and the results given must be regarded only as a tentative guide.

The results obtained with the solvent alone are not strictly comparable in that they were obtained with an earlier batch of ASL Ltd. mice. They demonstrate, however, that the solvent does not cause an extensive thickening of the epidermis.

As an alternative way of considering the results, the 'area under the curve' has been calculated, and a suitable correction made from the initial thickness as defined by the control sections. This area (expressed in micron-days) which is due to the thickening of the epidermis might serve as an activity-rating of the condensate. On this basis the results show:

Type of mice	Dose (mg)	Area activity-rating (micron-days)
ASL Ltd	Solvent	9
ASL Ltd	12.5	52
"Harrogate"	25	80
ASL Ltd	25	90
"Harrogate"	50	148
ASL Ltd	50	137
"Harrogate"	100	(171)

I hope that this information will be of interest to you.

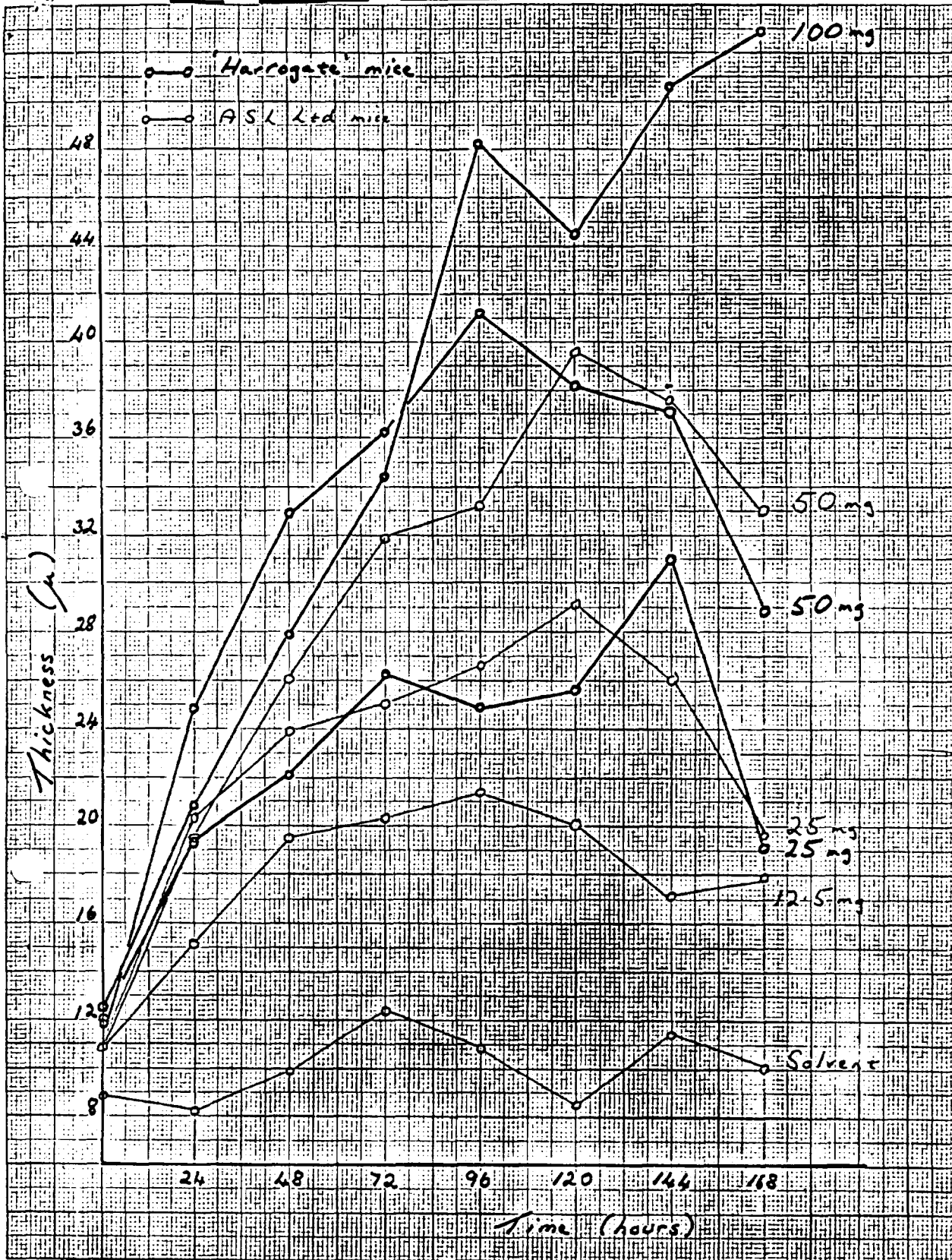
Yours sincerely,



C.I. Ayres

105610/82

Dose-response experiments



105610783