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December 8, 1970

Mr. Elmer P. Wheeler
Monsanto Company
800 N. Lindbergh Boulevard
St. Louis, Missouri 63166

Dear Elmer:

We have received the samples of Aroclors 1221, 5432, 5442, 5460 and MCS 1016 and will proceed with the studies authorized in your letter of 12/2/70.

Your letter states that the rat oral LD_{50} of Aroclor 5432 is 61 mg/kg, but the Younger report states 6100 mg/kg. I believe the figure in the letter is a typographical error.

We will fill out the table for you as soon as the dates for each study are firm.

Your prices for the acute studies are correct, with one exception. The acute vapor inhalation studies will cost $200 for the one exposure, which may be adequate if none of the rats die. However, if additional levels of either compound are needed, we charge $150 for each additional level.

Under "Teratology" you have a cost of $1,800 for rabbits. This price is for teratology studies in rats (which we are doing with Aroclors 1242, 1254 and 1260). The price for rabbit teratology studies is $4,500. If you want to use rabbits, the price should be adjusted. We, of course, would give you the benefit of cost saving by the use of common controls in either species.

In the subacute rat and dog studies the costs of $6,000 and $10,000 were given to you for budgetary planning. They actually are high if common controls are used. For the dog studies we would use 3 test groups with each of the 4 materials and one common control group (13 groups total).

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With each group the same amount of testing is done, so the cost for each group is the same ($2,500). The total cost for the dog studies will be $32,500 or $8,125 for each material.

For the rat studies we would use 3 test groups with each of the 4 materials and one common control group (13 groups total). In rat studies we do histology and blood tests on the control group and only the highest feeding level, unless effects are found at that level. (Then rats from lower levels are examined.) Therefore the costs for the groups are not the same. This is why the estimate of about $2,100 for the control group was given to you. Since we plan to feed all four compounds at the same time, I have calculated the costs accordingly. The total for the rat studies is $20,400; and, divided by four, amounts to $5,100 per material. If histology or blood tests are needed on rats fed lower levels, the costs will be $20 per rat for histology or $20 per rat for complete hematology and clinical chemistry.

We are designing a protocol for subacute fish studies, which we will send you soon.

The reports of acute fish toxicity studies on Aroclors 1242, 1254 and 1260 are in progress. We will send them as soon as possible.

Best regards.

Sincerely yours,

M. L. Koplinger, Ph.D.
Manager, Toxicology

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