March 8, 1957

Dr. H.G. Khorana
British Columbia Research Council
at the University of British Columbia
Vancouver 8, B.C., Canada

Dear Gobind:

I am very pleased that we can send you the enclosed sample of what I hope is terminally-labeled ATP. Sylvy prepared it with her ensyme which appears to be free of myokinase. In an earlier experiment with P^{32}-labeled poly-P and ADP as acceptor, P^{32} label was found only in the ATP. With any significant amount of myokinase some counts should have been detected in the ADP zone.

The enclosed sample contains about 4.6 μmoles of P^{32}-labeled ATP and about 2 μmoles of unlabeled ADP. It was prepared by Norite adsorption and elution of Sylvy's acidified reaction mixture. There has been no chromatography and it seems to me that for the purpose of making PRPP it would not be necessary. When counted yesterday as a dry sample under the end-window Geiger counter (not the gas-flow, and therefore about 1/3 as sensitive as when counted on our gas-flow counter), the specific radioactivity was of the order of 7×10^6 counts per minute per μmole. The sample has some Norite in it which I believe will be easily removed by centrifugation when you go to dissolve this lyophilized powder. Since we eluted the ATP with ammoniacal ethanol I expect that it is the ammonium salt.

If you have any questions about it please do not hesitate to call me. We are very eager to see how your results with this ATP will compare with your earlier experiment.

With fond regards.

Sincerely yours,

Arthur Kornberg

AK/mb
enclosure