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Telephone : Direct Line [redacted]
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22nd May, 1984.

Dr. P. Foster,
Protein Fractionation Centre,
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EH17 7QT.

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FVIII	
APPROVED	APPROVED
PP	RR

Dear Peter,

Can I remind you of a few questions that couldn't be answered a fortnight ago concerning the factor VIII heated in solution. Can you tell me what source of heparin was used and, if it was Pularin, where you currently get supplies?

You were going to confirm the running order for polypropylene, polycarbonate, glass and stainless steel for preservation of factor VIII activity.

I seem to have inconsistencies in the precise conditions for extraction and precipitation. I think I need to know the protein, citrate and zinc concentrations of the solutions which are to be mixed, their proportions, and the same characteristics for the zinc supernatant.

Could you confirm the background buffer to the citrate/calcium solution used to redissolve the glycine/sodium chloride precipitate.

I assume that the helical stirrer you use for redissolving the sorbitol does not need to be so finely engineered as a thawing helix e.g. in separation from the wall etc. Perhaps you could advise on how much dead volume to leave, pitch of the stirrer, one or two helices, rate of stirring, etc. - all things which it would be best to send someone to observe, but it may not be possible soon.

As I mentioned on the phone, we have stumbled (literally) on an intriguing alternative to zinc. I am trying to get a Crown record entered this week and will let you know immediately I have confirmation of this.

Did Ida pass on to you my request about what I think was a Kabi patent on the separation of fibrinogen and factor VIII on heparin sepharose or dextran sulphate sepharose. Surprisingly, Andersson has not mentioned it in recent patents and papers but I am sure something of this kind was published about ten years ago. I would be very glad if your sources are more reliable than mine.

With my best wishes.

Yours sincerely,

J.K. Smith.
Chief Project Scientist.

P.S. I have just received Bob's letter dated 14th May, via BPL. Would you let him know of the delay and ask Irene to alter her address book.