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SCOTTISH NATIONAL BLOOD TRANSFUSION SERVICE  
SOUTH EAST REGIONAL CENTRE & DEPARTMENT OF  
TRANSFUSION MEDICINE

To: Prof J Cash Dr P Foster Dr D Pepper  
 From: Dr C V Prowse  
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 Ref: CVP/LG

**HEAT TREATMENT OF LILLE CONCENTRATES**

Given a pair of vials from an individual batch of each of three types of concentrate we chose initially to just assess the effects of 72h 80°C (monitored at  $\pm 2^\circ\text{C}$ ) dry heat on the main activity of each product:

	<u>PRE</u>	<u>POST</u>	<u>LABEL</u>
<b>FVIII HIGH PURITY (85090010)</b>			
Activity (iu/ml, conc std, 1 stage)	29.4	20.6(70%)	? 25
Solubility Time (min)	2.5	6	
Appearance	clear	clear	
<b>FIX HIGH PURITY (90092190)</b>			
Activity (iu/ml, conc std, 1 stage)	30.2	26.5(88%)	? 25
Solubility Time (min)	4	10	
Appearance	clear	few granules still at 20 min	
<b>vWf CONCENTRATE (87990130)</b>			
Activity	(to follow)		? 25
Solubility Time			
Appearance	clear	some insolubility	

I now propose to ask PFC for analyses of total protein and buffer constituents.

IF THIS APPEARS THAT TERMINAL HEAT TREATMENT CAN BE A VALID OPTION FOR 'HIGH PURITY' PRODUCTS.

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