INFECTED BLOOD INQUIRY

BRENDON GRAY WITNESS STATEMENT EXHIBIT WITN6984084



NATIONAL BIOLOGICAL STANDARDS BOARD

A W.H.O. International Laboratory for Biological Standards NATIONAL INSTITUTE FOR BIOLOGICAL STANDARDS AND CONTROL
Blanche Lane, South Minms, Potters Bar
Hertfordshire, EN6 3QG

MEDICINES ACT 1968

telegrams Nibsac Potters Bar telex 21911 Nibsac G telephone Potters Bar (0707) 54753 & 54763

BATCH RELEASE CERTIFICATE

No H 0089 A

No PL/0055/0107

PRODUCT

Koate HT (Heat Treated Factor VIII)

In accordance with the provisions of the above Product Licence Characaka Arabaka Cortificates

held by

Miles Laboratories Limited

THIS IS TO CERTIFY THAT protocols and samples of

Batch No/s	Filling Lot/s
508062	
	•
*	

received from

Miles Laboratories Limited

have been examined and that sale or supply is hereby authorised with the consent of the Licensing Authority of the Department of Health and Social Security.

Dated	this	20th	đay (of	October	<u>-</u>	19	87
		S	ignati	ure		о-с		
				•		STANDARDS		

6 October 1987

MWT/kp

Dr T Barrowcliffe N.I.B.S.C. Blanche Lane South Himms Potters Bar Herts EN6 30G

Dear Dr Barrowcliffe

BATCH RELEASE: KOATE HT

Please find enclosed the following samples of KOATE HT for batch release testing:

5 vials of KOATS HT batch 508062 (260 IU)

A protocol and 5 vials of Water for Injection batch 1858717V-F are also enclosed.

Yours sincerely

Harie W Tatt (Hrs) Regulatory Affaire Manager

Encer

Lab 3 3 801 No 505062

Att

Lot

writ

PROTOCOL FOR U.K RELEASE OF KOATE®

Information Identifying Lot of Filled Final Product

> Manufacturer's Name - Cutter Laboratories Manufacturer's address at which all processing and testing are performed CLAYTON, N.C., USA Product License Number-0055/0107 Product Name-Koate@-HT Antihemophilic Factor (Human) 15 SEP 89 Expiration Date___ 50S062 Final Product Lot Numer_

> Sterile Water for Injection, USP, Lot No. 1858717V-F

2. Sterilization and Filling

Sterilization: Membrane Filtration 0.22 MIcron Pore Size Date 1 SEP 87 , No. of Containers Filled container volume before freeze drying_ 9.82

[X] Under Vacuum

[X] Dry Heat-Treated at 68°C for 72 hrs.

3. Sterility Test of Final Filled Product (Test carried out in a

CFR and USP requirements) Date Started 15 SEP 87 No. of tubes showing growth in medium: Fluid Thioglycollate Medium None out of 20 Soybean Casein Digest Medium None out of 20

Tests for Freedom from Abnormal Toxicity

Testing

Kind of Test: Guinea Pig and Mouse

Toxicity Test Both

Date of Test: Guinea Pig 16 SEP 87

Mouse 16 SEP 87

Vials of filled final product tested: _2_

Type of Animal	Sex	Strain	Dose	Route	Volumes	Diluent
Guinea Pigs	<u>M</u>	Charles River	26.48 IU*	ip	5.0 mL**	None
Mice	<u>M</u>	Charles River	26.48 IU*	ip	0.5 mL**	None

*IU Factor VIII/mL

**Undiluted Solution

Number of Animals used: 2 guinea Pigs; 2 Mice

Guinea Pig Toxicity Test

Mouse Toxicity Tests

Two Guinea Pigs	Weight at Beginning of Test	Weight at End of Test
1 2	342 g 335 g	386 g 371 g

Range of wt. of animal used: Route of injection 0.5 mL intraperitoneally Period of Observation 7 days

No loss of weight, no symptoms of sickness, no death. Period of observation: 7 days.

I-650-2, Rev. 17RI(QAR 650)

Final Lot No. 50S062

5. Tests for Freedom from Pyrogenic Substances

The pysrogen test is caried out in accordance with the U.S. Code of Federal Regulations

Vials of Filled Final Product $\underline{2}$ Date of Test $\underline{18}$ SEP $\underline{87}$

Dose Injected 26.48 IU Factor VIII/kg Method of preparation of the solution injected: Product reconstituted in recommended volume of Water for Injection.

For Each Rabbit

Rabbit Number	Rabbit Weight	Whether Rabbit Previously Used	Temperatures Recorded Before Injection (0) Minutes)	Before Recorded After Injection	
1 2 3	1900 g' 2100 g 2100 g	YES YES YES	39.7 °C 39.8 °C 39.8 °C	+60 +120 +180 Min 39.3 °C39.5°C39.3°C 40.1 °C39.6°C39.3°C 40.1 °C39.9°C40.0°C	_0.3°c

Summed Response for each Group of Rabbits 0.6 °C.

6. Biological Potency

Assay Procedure: one stage

Standard Used

House Standard Lot No. MEGA I Nature of House Standard:

Freeze-Dried Concentrate
Temperature of Storage: -50°C

Standard against which it was calibrated:

Date of calibration: Dec. 1983

Potency Assigned to House Standard: 10.2 IU/mL

Date of Recalibration: Dec. 1984

3rd International Standard 80/556

Potency

Date of Assay 15 SEP 87

After reconstitution

Initial dilution of: Standard 1-10

Test 1-10

Diluent used Imidazole with 0.5% Albumin, pH 7.3

I-650-2, Rev. $17_{RI}(QAR 650)$

. Sheet 3 of 4 Final Lot No. 50S062

Results:	One	assay	for	each	of	4	containers:

esurcs.	One assay 10			•
		Operator		
	Dilution	Standard I*	Standard II*	Standard III*
	1:100	49.9	50.7	
	1:200	55.9	56.7	
	1:400	62.3	63.1	
	1:800	69.3	69.4	
	1:1600	75.0	77.4	
		Containe	r1	
	Dilution	a **	b_**	C **
	1:500	56.5	56.3	
	1:1000	61.9	61.9	**
	1:2000	69.2	69.9	
**************************************		Operator	# 2	
	Dilution	Standard I*	Standard II*	Standard III*
	1:100	50.5	50.4	
	1:200	57.3	57.0	
	1:400	63.0	62.8	
	1:800	69.9	69.6	
	1:1600	75.6	75.9	
	2.2000	Containe		
	Dilution	a **	ъ **	C **
	1:500	57.1	55.6	9,0,000,000,000,000
	1:1000	61.9	62.9	
	1:2000	69.2	68.8	
NATIONAL - PROPERTY OF THE PRO				
	~ 13 / 1	Operator		Chandand III+
	Dilution	Standard I*	Standard II*	Standard III*
	1:100	51.3	51.1	
	1:200	56.1	57.2	
	1:400	62.4	63.2	•
	1:800	68.0	68.5	
	1:1600	73.8	75.5	
	,	Containe		
	Dilution	a **	**	**
	1:500	56.6	56.8	4.
	1:1000	62.2	62.1	
	1:2000	67.9	68.9	
		Operator		
	Dilution	Standard I*	Standard II*	Standard III*
	1:100	50.6	50.4	
	1:200	56.4	56.5	
	1:400	63.4	63.9	
	1:800	70.1	70.5	
	1:1600	76.1	76.0	· e
		Containe		
	Dilution	a **	b **	* *
	1:500	56.9	56.5	The second secon
	1:1000	64.3	63.0	
	1:2000	. 69.2	69.9	

^{*} Independent sets of dilutions made up from the same ampule of reconstituted standard.

I-650-2, Rev. 17_{RM} QAR 650)

^{**} Independent sets of dilutions derived from separate 1-10 dilutions of sample.

•

: CUTTER BIOLOGICAL			Sheet 4 of 4
		٧	Final Lot No. 50S062
Potency estimate	for: Container 1 26.52 Range 25.24 - 28.58	_IU/mL	Container 2 27.28 IU/mL Range 26.99 - 27.83
	Container 3 26.40 Range 25.98 - 27.24		Container 4 25.75 IU/mL Range 24.80 - 26.42
Combined potency	4 containers 26.48 Range 24.80 - 28.58	_IU/mL	
7. Test on Product R	econstituted in the Recom	mended V	olume of Water for Injection
Protein 0.17 Moisture Content	1.6 IU/mg Protein g/container 0.6 % ed Material 7.1	Ar An	erlong Precipitin Test ti-Human <u>Positive</u> ti-Bovine <u>Negative</u> ti-Equine <u>Negative</u>
Na+	<u>~ 156</u> mEq/liter	HBsAg	non-reative
Cl	146 mEq/liter	Alumi	num not done
Solution Time	1.8 minutes	Anti-	A (Saline) 1:16
		Anti-	B (Saline) 1:8
Glycine 0.8	8		er en
Product prepared Hepatitis B Surfa	from fractionated pooled ce Antigen, HTLV III Anti	plasma o	btained from donors tested for T, and found negative.
Responsible	GRO-C)	30 SEP 87
Qualit	y Assurance Release Coord	Tinator	Date of Signature
			o HIV by ELISA-ENI Virgo and -ENI Riausure II and found
Signed	GRO-C	cococococococococococococococococococo	Date 30 SEP 87
	1		

I-650-2, Rev. 17H(QAR 650)