



Armour Pharmaceutical Company Limited

St. Leonards House, St. Leonards Road, Eastbourne, Sussex BN21 3YG
Telephone: Eastbourne (0323) 21422 Telex: 87141

SJH/JJ

11th May, 1984

Department of Health and Social Security,
Medicines Division,
The Registration Section,
Room 1019-20,
Market Towers,
1 Nine Elms Lane,
Vauxhall,
LONDON,
SW8 5NQ

Dear Sirs,

HIGH POTENCY FACTORATE - PL 0231/0044

Thank you for your letter of 7th March, 1984, we will be requiring a Product Licence after the expiry date and we therefore enclose three copies of a completed MLA 231.

Thank you for your attention to this matter.

Yours faithfully,
ARMOUR PHARMACEUTICAL COMPANY LTD.

GRO-C

S. J. HINCE
Assistant Regulatory Affairs Manager

MEDICINES ACTS 1968 AND 1971

APPLICATION FOR RENEWAL OF PRODUCT LICENCE

A.	Full name and address of licence holder:	Armour Pharmaceutical Company Ltd., St. Leonards House, St. Leonards Road, Eastbourne, East Sussex, BN21 3YG
B.	Particulars of Present Licence: (i) Number: PL 0231/0044 (ii) Name of Product: High Potency Factorate (iii) Date Granted: 13th June, 1979 (iv) Date of Expiry: 13th June, 1984	
C.	a) Dates of approval of changes in the original particulars: 14.10.80, 18.8.81, 6.4.82, 15.7.82, 6.4.84, 15.8.83, 31.7.80, 16.4.80 b) Dates of applications for change not yet determined:	
D.	If any further documents are attached, give number of pages and a brief description:	
E.	I/We apply for the renewal of the product licence described above for a period of five years from the date of expiry given above. The licence as renewed shall be in accordance with the particulars given above and on any accompanying documents, and those given in the original application as amended by the letters referred to in C above. The licence shall further be subject to all the provisions of the existing licence as now in force. Date: 10.5.84 Signature: <div style="border: 1px solid black; padding: 2px; display: inline-block;">GRO-C</div> State capacity in which signed. Assistant Regulatory Affairs Manager <u>Signature</u> The form should be signed by the holder of the present licence. Where the licence is held by a company, the person signing should indicate in what capacity he does so (eg company secretary, director etc). Name and address for communications: (if different from above)	

ARMOUR001320

ARMO0000145_0002

Form MLA 231

1. Number of Product:

Name of Product and Strength: HIGH POTENCY FACTORATE.

2. Description of Pharmaceutical form (eg tablets, slow-release tablets, capsules etc):

3a. Legal status (place tick in appropriate box(es))

(Official use only)

3b. Method of retail sale or supply:

(Official use only)

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Indications

Route of Administration

Intravenous.

(Official use only)

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Distinguish between adults, children and the elderly and between different clinical indications

(Official
use only)

HIGH POTENCY FACTORATE is for intravenous administration only. As a general rule one unit of Factor VIII activity per kg will increase by 2% the circulating Factor VIII level, and although dosage must be adjusted according to the needs of the patient (weight, severity of haemorrhage, presence of inhibitors) the following general dosages are suggested.

Initially 20 units per kg of body weight followed by 10 units per kg every eight hours for the first 24 hours and the same dose every 12 hours for 3 or 4 days. For massive wounds, give until bleeding stops and maintain with 20 units per kg 8-hourly to achieve a minimum Factor VIII level of 40%.

(a) Minor haemorrhages in extremities or non-vital areas: 10 units per kg once a day for 2 or 3 days.

(b) Massive haemorrhages in non-vital areas: 10 units per kg by infusion at 12 hour intervals for 2 days and then once a day for 2 more days.

(c) Haemorrhages near vital organs (neck, throat, subperitoneal): 20 units per kg initially; then 10 units per kg every 8 hours. After 2 days the dose may be reduced by one half.

(Official use only)

[illegible]

Armour Pharmaceutical Company,
P.O. Box 511,
Kankakee,
Illinois 60901,
U.S.A.

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Distinguish between adults, children and the elderly and between different clinical indications

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(Official
use only)

3. Joint Haemorrhages

10 units per kg every 8 hours for a day; then twice daily for 1 or 2 days. If aspiration is carried out, 10 units per kg just prior to aspiration with additional infusions of 10 units per kg 8 hours later and again on the following day.

4. Surgery

Dosages of 30 to 40 units per kg body weight prior to surgery are recommended. After surgery 20 units per kg every 8 hours should be administered. Close laboratory control to maintain the blood level of Factor VIII above 40% of normal for at least 10 days post-operatively is suggested.

5. Dental Extractions

For simple extractions a pre-operative dose of 20-25 units per kg sufficient to raise the Factor VIII level to 50% should be given, followed by intravenous administration of tranexamic acid. For multiple extractions further doses of Factor VIII may be advisable 24 or 36 hours after the operation.

(Official use only)

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7. Name(s) of manufacturer(s) of the dosage form and site(s) of manufacture:

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Distinguish between adults, children and the elderly and between different clinical indications

- (Official
use only)

1. Attach a filter needle to a sterile disposable syringe.
Insert filter needle into stopper of HIGH POTENCY FACTORATE vial;
inject air and withdraw the reconstituted solution from the vial.
2. Discard the filter needle and attach a suitable intravenous needle.

3. Administer solution by slow intravenous injection, at a rate comfortable to the patient, and not exceeding 2 ml/minute.

(e) Intravenous Infusion

The transfusion equipment used should comply with that described in sections 3 or 4 of British Standard 2463:1962, Transfusion Equipment for Medical Use.

1. Prepare solution of HIGH POTENCY FACTORATE as recommended under Dilution.
2. Attach suitable infusion set.
3. If more than one vial is to be administered to the same patient the infusion set may be transferred to a second vial.

(Official use only)

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7. Name(s) of manufacturer(s) of the dosage form and site(s) of manufacture:

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USE IN PREGNANCY

CONTRAINDICATIONS

PRECAUTIONS

WARNINGS AND ADVERSE EFFECTS

Products of this type are known to cause mild chills, nausea or stinging at the infusion site. The possibility of allergic reactions occurring with the use of AHE concentrates cannot be discounted.

(Official use only)

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TOXICITY AND TREATMENT OF OVERDOSE.

However, patients receiving very large amounts of therapeutic material may show signs of intravascular haemolysis and decreasing haematocrit values (see Precautions) as a result of haemagglutinins contained in the preparation. Haemolytic anaemia when present may be corrected by the administration of compatible Group O Human Red Blood Cells. Corrective therapy may also include the use of type specific cryoprecipitate as an alternative source of AHF.

(Official use only)

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(Official
use only)

Name _____

Specification	
Reference	mod

Quantity/Dose
Unit or
% quantity

Unit

[illegible]

- 1) Please leave a line between different components of the dosage form, eg. for capsule shell components, coating components.
- 2) Where a specification reference does not refer to the latest published monograph, the relevant year should be included in the Name column and not in the Specification Reference column. Where an ingredient has no official monograph please enter HSE in the Specification Reference column.
- 3) Please complete modifier column marked mod. as follows:
Insert TO if final volume cannot be expressed as a complete quantity.
Insert ND for substances not detectable in the final formulation, eg. solvents.
Insert QS if quantity not fixed, eg. for substances used to adjust pH.
- 4) Where quantity is expressed as a percentage please insert WW, WV, etc. as appropriate in unit column. Please do not include percentage sign.
- 5) Trailing zeros following the decimal point may be omitted eg 10.02 MG will suffice.
- 6) Please photocopy page if more space for constituents is required.

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A cryoprecipitate is isolated from thawed human plasma and is dissolved at $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$ in glycine-saline buffer containing nmt 3 units/ml Sodium Heparin USP. The pH is adjusted with 0.1N Acetic Acid and/or 0.5N sodium hydroxide and filtered. Impurities are adsorbed onto aluminium hydroxide sterile suspension, centrifuged at approximately 15°C and the preparation stabilised with Sodium Citrate USP and Sodium Chloride USP (both pyrogen-free). The solution is cooled to approximately 0°C and cold ethyl alcohol (95%) added to a concentration of approximately 7%. The precipitate is isolated at low temperature and suspended in citrate-saline-glycine buffer. The pH is adjusted to 7.0 ± 0.2 with 0.5M sodium hydroxide. This solution may be stored at -40°C or colder if required at this stage. Such frozen solutions are thawed at $34 \pm 4^{\circ}\text{C}$ and brought to final volume with buffer. The pH is adjusted to 5.6 ± 0.3 with 0.5 acetic acid at controlled room temperature ($15-30^{\circ}\text{C}$) and the solution is cooled to $8^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for up to 2 hours. The resulting precipitate is separated and the supernatant clarified by membrane filtration and the pH adjusted to 7.2 ± 0.4 with 0.5 M sodium hydroxide.

The solution is membrane filtered and finally sterile filtered through bacterial retentive membrane filters (0.8 μ down to 0.22 μ) before filling into sterile, Type I glass vials. The filled vials are frozen, lyophilised under vacuum and sealed.

	<u>250 iu/vial</u>	<u>500 iu/vial</u>	<u>1000 iu/vial</u>	<u>2000 iu/vial</u>
DESCRIPTION	White to pale yellow lyophilised cake			
VIAL SIZE	30 ml	50 ml	50 ml	100 ml
MAMMALIAN PROTEIN	Human positive, Bovine, Ovine and Porcine negative			
ACTIVITY	NLT 200 iu/vial	NLT 400 iu/vial	NLT 800 iu/vial	NLT 1600 iu/vial
HEPARIN	NMT 10 iu/vial	NMT 20 iu/vial	NMT 30 iu/vial	NMT 50 iu/vial
TOTAL PROTEIN	NMT 150 mg/vial	NMT 300 mg/vial	NMT 600 mg/vial	NMT 1200 mg/vial
FIBRINOGEN	NMT 120 mg/vial	NMT 240 mg/vial	NMT 480 mg/vial	NMT 960 mg/vial
ALUMINIUM	NMT 50 µg/vial	NMT 100 µg/vial	NMT 180 µg/vial	NMT 300 µg/vial
MOISTURE	NMT 0.5% w/w	NMT 0.5% w/w	NMT 0.5% w/w	NMT 0.5% w/w
FREEDOM FROM ABNORMAL TOXICITY				
MOUSE	Passes Test	Passes Test	Passes Test	Passes Test
GUINEA PIG	Passes Test	Passes Test	Passes Test	Passes Test
PYROGENS	Passes Test	Passes Test	Passes Test	Passes Test
STERILITY	Passes Test	Passes Test	Passes Test	Passes Test
SOLUTION TIME	NMT 20 Minutes	NMT 20 Minutes	NMT 20 Minutes	NMT 20 Minutes
pH	6.8 - 7.4 reconstituted			
ISOAGGLUTININS	Not more than 1:256 without predilution and typically less than 1:64 when tested against Anti-A and Anti-B			
SODIUM CITRATE	Not more than 200 mmol/l reconstituted			
HEPATITIS Bs ANTIGEN	Negative	Negative	Negative	Negative

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