

Dieline 160266

16"x16"

DESCRIPTION

USCRIPTION Cacquidation Factor IX. (Human). AlphaNime[®] SD, is a purified, solvent detergent treated, vnus filtered preparation of Factor IX. derived from human plasma.¹ It contains a minimum of 1.50 IU Factor KUmg profein, levels of Factor VII (proconvertin), Factor II (profitnomin) and Factor X. (Sust-Prover Factor VII with are below the limit of detection (less than 0.04 Factor VII unit, less than 0.05 Factor II unit, and less than 0.05 Factor X. Unit eV Factor IX. AlphaNime[®] SD is astropic dese container. Intended for intravenous administration only Each via Is a single dese container. AlphaNime[®] SD cartains not unit et alm (MIII) 0.04 unit (MIII) 0.02 mg of destrose, NMT 1.0 µg polysobate 80 and NMT 0.10 µg trins-butyh phosphate/IV of Factor X.

CLINICAL PHARMACOLOGY

The product of the

Process Step	Virus Reduction (log ₁₀)							
Frocess step	Sindbis	VSV	HIV-1	HIV-2	Parvo**	EMC	Reo	HAV
DEAE Chromatography	1.4	NT	NT	NT	1.5*	NT	NT	NT
Solvent-Detergent	NLT 5.3	NLT 4.9	NLT 12.2	6.0	NT	NT	NT	NT
Dual Affinity Chromatography	4.7	NT	NT	NT	2.2*	NT	NT	NT
Nanofiltration	NT	NT	NT	NT	3.6	3.4	4.1	≥ 4.4
**Porcine NT=N	ot tested	NLT=N	lot less t	han *	Lower 95	% confi	dence in	iterval

Table 1

"Proticine Ni=Hot tested mulli=Hot tests than "Lower 50% commencement method. The retrovirus known as human immunodeficiency visual HOM bas been identified as a causative agent of Acquired Immunodeficiency Syndrome (ADS) and has been shown to be transmissible via blood or blood product. The solvent defregent process used in the manufacture of AlphaNime" 50, was shown to inactivate greater than 122 kpgs required to the solution of the solution of the solution of the solution of the solution evaluation (as measured by virus antigene capture and reverse transcriptase assays). In addition, this process was shown to inactivate 5 logs of HW-2 (as measured by product as a solution of the solution of the product solution of the solution of the

In order to assess the ability of the solvent detergent treatment process to inactivate other viruses such as hepatitis B and C virus, the inactivation of the model viruses, Sindha virus, a model virus for hepatito C virus, and vesicular stomattis virus (VSV), a model RNA virus for the results domostates, by solvent detergent treatment was studied. Prior to solvent detergent treatment, samples were inoculated with a titer of either Sindbis or VSV. The results domostated that a minimum of 3.3 logs of Sindhis and a minimum of 4.3 logs of VSV were inactivated after the Sindbis or VSV. The results domostated that a minimum of 3.3 logs of Sindhis and a minimum of 4.3 logs of VSV were inactivated after the balance of the balance of the solution of the mean of the model of the process is twice (360 minutes that) that user in the model virus studies. The ability of the Mahlene⁺ SD process the einhabet virus, by physically partitioning virus from product, was evaluated at key stages of the manufacturing process. Under some provinces were added to samples oblaned from the Aphahime⁺ SD process. The annual of virus provide a stage state that the transfer of the solution of the distribution and/or of states process are provided and divers provides and 1.5 logs states were performed and a deal state subsequent partitication stage was then Addition of Sindhis's process paraverus park to factor C complex astophism by DEAC chromatography showed this step to leinhabet virus (EMC). *S2–2.7.01* of addition provides and virus gravity is a provide state of addition of Sindhis and 1.5 logs of the AphAhiem⁺ SD process, the subsequent dual afficience interval. *S2–2.7.01* of addition of sindhis and a provides and solve a studies of the AphAhiem⁺ SD provess. The apavirus, the patheting chronic states and the studies and to diminate 4.4 logs of Bondhist A logs of added provides and addition to virus (EMC), stage, the subsequent anonflication the process after the banatime "140 paratime" and the inachistication achieved by the sol

INDICATIONS AND USAGE

Inducations and usace AlphaNine[®] SD in indicated for the prevention and control of bleeding in patients with Factor IX deficiency due to hemophilia B. AlphaNine[®] SD contains low, non-therapeutic levels of Factors II, Vil, and X, and, therefore, is not indicated for the treatment of Factor II, Vil or X deficiencies. This product is also not indicated for the reversal of commani anticographic-indicated hemorthage, nor in the treatment of hemophilia A patients with inhibitors to Factor VIII. CONTRAINDICATIONS

WARNINGS

Notexast. **Secase** Cognitation factor IX (Human), AlphaNin[®] SD is made from pooled manufacture of the Courtedie Usado doesse (LD) ognitation and the pooled in the montacing of courtedie Usado doesse (LD) ognitation and the pooled in the montacing of postant bits pooled to the second point of the courtedie Usado the montacing of postant bits pooled to the second point of the pooled in the manufacture of this pooled. Them the screening of plasma does and the pooled weight of postant bits pooled to the second pooled to the pooled the manufacture of this pooled. Them the screening of plasma the observation of the manufacture of the product in the second pooled to the pooled to any pooled the pooled weight of the second to the second to the pooled to any pooled to plasma the second to the second to the second to the second to the pooled to manufacture of the second to the second to the second to the pooled to manufacture of the second to the second to the second to the pooled to manufacture of the second to the second to the second to the pooled to manufacture of the second the second to the second to the second to the second manufacture of the second to the second to the second to the second to the second manufacture of the second to the second to the second to the second to the second manufacture of the second to the second plasma to the second to

PRECAUTIONS General

PRECATIONS Ceneral In order to minimize the possibility of thrombogenic complications, dosing guidelines should be articly followed. Refer to "Dosage and Administration" section for recommended amount of product to be administertia. AphNine" SD studies of the administer this material should beercise appropriate caution in handing due to the risk of expecuse to viral infection. Discard any unused contents info the appropriate safety container. Discard administration requestion the studies and the appropriate addep container. Discard administration equipment after single use into the appropriate safety container. Discard administration equipment after single use into the appropriate safety container. Discard administration equipment after single use into the appropriate safety container. Discard Patients should be informed of the early symptoms and signs of hypersensitivity reaction, including three, generalized uticariar, chest tighthess, depaner, wheating, used the product and contact hiter hyperbalan and/or seak immediate emergency care, depending on the severity of the reaction, if these symptoms cocur. Some viruses, such as pravovirus B19 may most seriously affect some-negative or inactivate at this time. Paravovirus B19 may most seriously affect some-negative and the product solute hypersensitivity reactions, Patientis konno to have imager defending on the safet hypersensitivity reactions, patients konno to have imager defending and the safet hypersensitivity reactions, patients konno to have imager defending matations of the Factor IX gene should be observed clocely to stages and defending matations of the factor IX gene should be observed clocely to stages and initial exposure to product.

Pregnancy Category C Animal reproduction studies have not been conducted with AlphaNime[®] SD. It is also not known whether AlphaNime[®] SD can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. AlphaNime[®] SD should be given to a pregnant woman on yif clearly indicated. Pediatric Use Clinical trials for safety and effectiveness in pediatric patients IS years of age and younger have not been conducted. Acress a well controlled half-life and recovery inicial trial patients previously treated with 15 add patients.² In an ongoing safety and efficacy clinical trial in patients in previously treated with factor With add efficiency clinical trial in patients and previously treated with factor With add convent detergene threaded symposite similarly when compared with the first with factor convented efficacy clinical trial in patients and previously treated with factor the value tratement back to be age of 16 years. Adverse events were similar in this proup compared to the patients above the age of 16 years. Accedual evaluation of the results indicates no safety and efficacy differences between pediatric and adult populations.

ADVERSE REACTIONS

APURSE REACTIONS The administration of plasma preparations may cause allergic reactions, mild chills, nause are training at the influsion site. For mest reactive individuals, slowing the influsion rate releves the symptoms. For these highly reactive individuals, adfreent of may be astistated. Advess reactions, characterized by either thrombosis or disseminated intravescular conguitation (CD), have been required blowing administration of Each IX Compet-concentrates, Patients who neeve Cogulation Factor K (Human), Alphafime[®] 30, following operation, or these with howing administration of Each IX Compet-lited and the competition of the individual of the stress of the competition of the stress individuals, adfress of the competition of the individual of the stress individual of the competition of the individual of the stress of the individual that direct address of the competition of the individual of the theore of the theorem and HT products, on adverse reverts were associated with 18 individuals with speak of the context of the address of the individual of this product, Alphafime[®] 10, address of address of the individual of the severe to indicate the herephila Bi-Short term safely of the carlier version of this product, Alphafime[®] 10, address of address of a different of the context of the individual of the severe to indicate the product were received by 31 patients participating in three clinical trials. In the clinical trial to indicate the context oparation fractor (Composition of Alphafime[®]). To 55, 01 of Alphafime[®], in 20, 20, 01 fractors (X) in an average of 16 influsions (range 2 to 2 influsions, Sintern mission inme, pathomobiosi carles gradeds atom the products, finith monomers, 0-detimer sevel adpression and the seven for discretation products, finith monomers, 0-detimers and platelite counts) of thrombogenicity².

by hematocrit, partial thromboplastin time, prothromoin time, noninversion degradation products, fibrin monomers, D-dimers and platielt counts) of thrombogenicity.¹² To report SUSPECTED ADVERSE REACTIONS, contact Grifols at 1-323-225-2221. DOSAGE AND ADMINISTRATION

UDUAGE AND AUMINITY FOR AND ADDITIONAL AND ADDITIONAL ADDITIONAL

weight X Plasma Factor IX X 1.0 IU/kg =	Number of Factor IX U Required

Example: To Mg X 40 (% increase) X 1.0 IU/kg = 2.800 IU AlphaNine⁴⁵ SD In clinical practice there is variability between patients and their clinical response. Therefore, the Factor X level of each patient should be monitored frequently during replacement there to tubelines for Hemorrhagic Events and Surgery in Patients Diagnosed with Hemophila

Type of Hemorrhage or Surgical Procedure	Examples	Treatment Guidelines
Minor Hemorrhages	Bruises, cuts or scrapes, uncomplicated joint hemorrhage	FIX levels should be brought to at least 20-30% (20-30 IU FIX/kg/twice daily) until hemorrhage stops and healing has been achieved (1-2 days). ¹⁰⁴⁰
Moderate Hemorrhages	Nose bleeds, mouth and gum bleeds, dental extractions, hematuria	FIX levels should be brought to 25-50% (25-50 IU FIX/kg/twice daily) until healing has been achieved (2-7 days, on average), ^{II,ALIND21}
Major Hemorrhages	Joint and muscle hemorrhages (especially in the large muscles), major trauma, hematuria, intracranial and intraperitoneal bleeding	FX levels should be brought to 50% for at least 3-5 days (ds-50 UI FX/kg/twice daily). Following this treatment period, FX levels should be maintained at 20% (20 UI FX/kg/twice daily) until healing has been achieved. Major hemorthages may require treatment for up to 10 days. ^{IMARD}
Surgery		Prior to surgery, FIX should be brought to 50-100% of normal (50-100 IU FIX/kg/twice daily). For the next 7 to 10 days, or until healing has been achieved, the patient should be maintained at 50-100% FIX levels (50-100 IU FIX/kg/twice daily). ^{TARLBORT}

Dosing requirements and frequency of dosing is calculated on the basis of an initial response of 1% FIX increase achieved per IU of FIX infused per kg body weight and an average half-life for KY of 18 hours. Hoding studies have revealed that a particular patient exhibits a lower response, the dose should be adjusted accordingly. For pediatric usage: See PRECAUTIONS.

INSTRUCTIONS FOR USE AND HANDLING

Do not use after the expiry data shown on the vial label. Check assay value on label carefully before use. Use assptic technique during reconstitution and administration. Left-over product must never be stored for later use, nor stored in a refrigerator.

GRIFOLS

AlphaNine[®] SD Solvent Detergent Treated and Virus Filtered COAGULATION FACTOR IX (HUMAN)



Dieline 160266

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- Solution preparation:

 1. Warm the vial and syringe to the syringe containing diluent.

 2. Attach the plastic planger to the syringe containing diluent.

 3. Remove the lifet from its packaging. Notiver the rey rubber cap from the syringe-filter sesmbly.

 4. Remove the vial adaptor from its packaging. Attach the vial adaptor to the syringe-filter issenshly.

 5. Remove the plastic filtra-top cap from the concentrate vial and wipe the exposed rubber with the attached wipe provided.

 6. Place the syringe/filter/dagtor assembly over the top of the concentrate vial and pirce the stoper with the adaptor needle.

 7. Transfer all the Viate for hjections into the concentrate vial bdpressing the syringer/filter/dagtor.

 8. Genthy swrii the viat late to concentrate has dissolved. As with other parenteral solution. (At is no uponery dissolved or parenteral solution.)

 9. Firstly example the syringer/filter and vial/adaptor assembly over the synce planet the synce planet.
 particles are visible. 9. Briefly separate the syringe/filter and vial/adaptor assemblies to release any

- Birchly separate the syringe/filter and vial/adaptor assemblies to release any vacuum.
 Inered the concentrate vial and draw-up the solution through the filter into the syringe.
 Inergane the injection site, separate the filter/vial adaptor from the syringe. Inject the solution intravenously using the butterfly needle provided or a sterile needle.
 Administer slowly at a rate net exceeding: 10 ml/minute.
 After reconstitution with the Water for Injections solvent provided, the product should be used immediately.
 Do not re-use the administration sets.
 Any unseel product or waste material should be disposed of in accordance with local requirements.
 Reconstituted product should be inspected visually for particulate matter and disciolation prior to administration.
 MOW SUPPLED

HOW SUPPLIED

Nor sorricco SD is supplied in sterile, hophilized form in single dose vials accompanied by 10 mL diluent (sterile water for injections). AlphaNine® SD is packaged with a prefilied syringe with diluent (sterile water for injections) and accessaries for injection.

accessons for injection. STORAGE AlphaNine[®] SD is stable for three years, up to the expiration date printed on label, provided that the storage temperature is between 2 and 8 °C. Do not fre diuent. May be stored at room temperature not to exceed 30 °C for one month Rx only

REFERENCES

- Rr only
 REFERENCES
 Plasma Fraction Purification Serial No. 902.155 Patent issued.
 Data on the atrobio Biologicals LLC.
 Glies, A.R., Johnston, M., Hoogendoom, H., Blajchman, M. & Hirsch, J. The Thrombogenicity of Prothromion Complex Concentrates: I. The Relationship Determined in the Characteristic and in two Thrombogenicity in Rubbist, Market Schman, M. & Hoogendoom, H., Blajchman, M. & Hoogendoom, M., Blajchman, M. & Konson, D. L. Potentially Thrombogenic Materials in Factor IK Concentrates. Thromb Date: Heamorn Statut 33:33:17-631.1375.
 Provas, C.V. & Williams, A.E. A Comparison of the drive na dr. Ware Norski, Schmidth Models. Thromb Dentesting 43:43-436.1393.
 Premer, S.W. & Kingdon, H.S., Blanghi, K.J., Hard, J., Bark, J.,

- 9. dsmith, J.C., Kasper, C.K., et al. Coagulation Factor IX: Successful Surgical erience With a Purified Factor IX Concentrate. *Amer J Hematol* 40: 210-215, 12.1
- Coldamith, JC, Kasper, CK, et al. Coaguidation Factur KJ. Successful Surgical Engeneration: With Partified Factor KO Romentitate. Ameri Hematol 49: 210-215.
 Mannucci, PM, Bauer, KA, Gringeri, A, Barzegar, S, Boltassa, B., Sinoni L. & Rosenberg, RD. Intrombin Generation Is Net Increased in the Blood of Hemophila B Patients After the Infusion of a Purified Factur K Concentrate. Blood 76(12): 2340-2345, December 15, 1990.
 Chimatation et Yints During Menindeutre et al. Coaguidation Factur KJ. Concentrate. Asstract presented at XX International Congress World Researching Medication and Poliation Ender KJ. Strategie Constraints and Poliation Facture KJ. Strategie Activity 1930.
 Starter L, Escharter, Desenter MA, Shagino A, Key, R. Difficulet D, M. Bernstein, B. J. Korter, M. S. Stagino, A. Key, R. Difficuleta D, M. Bernstein, B. J. Korter, M. S. Stagino, A. Key, R. Difficuleta D, M. Bernstein, B. J. Korter, M. S. Stagino, A. Key, R. Difficuleta D, M. Bernstein, B. J. Korter, M. S. Stagino, J. Keysmann, F. Lung-ZY, 1997.
 Cauber, N. P. & Levine, J. Factor KJ. Levies in Patients with Hemophila B Christinas Disease Following Tendulation 55(2):22(3), 1977.
 Raberts, R.R., and Enerst, M.E. Current Management of Hemophila B. Renatology/Chaology Clinics of Metri America Neurohosis. Basic Principles and Clinical Pacetter, B.S. Caurent Anangement of Hemophila B. Renatology Chaology Clinics of Metri America (Tel 201-120), 1939.
 Boberts, R.R. and Enerst, M.E. Current Management of Hemophila B. Renatology Clinics of Metri America (Tel 201-120), 1930.
 Boberts, R.R. and Enerst, M.E. Current Management of Hemophila B. Renatology Clinics of Metri America (Tel 201-120), 1930.
 Boberts, R.R. and Berst, M.E. Current Management of Hemophila B. Renatology Clinics of Metri America (Tel 201-120), 1930.
 Boberts, H.R. and Garett, M.C. Burnent Management of Hemophila B. Renatology Clinics of Metri America (Tel 201-12

3052368 Printed in USA Revised December 2017

Manufactured by: Grifols Biologicals LLC 5555 Valley Boulevard Los Angeles, CA 90032 - U.S.A.

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