Coomagase Factor IX (Human) MONONINE® Monoclonal Antibody Purified

DESCRIPTION
Coomagase Factor IX (Human), MONONINE® is a sterile, stable, lyophilized concentrate of Factor IX prepared from pooled human plasma and is intended for use in therapy of Factor IX deficiency, known as Hemophilia B or Christmas disease. MONONINE is purified from extraneous plasma-derived proteins, including Factors II, VII and X, by use of immunofinity chromatography. A murine monoclonal antibody to Factor IX is used as an affinity ligand to isolate Factor IX from the source material. Factor IX is then dissociated from the monoclonal antibody, recovered, purified further, formulated and provided as a sterile, lyophilized powder. The immunofinity protocol utilized results in a highly pure Factor IX preparation. It shows predominantly a single component by SDS polyacrylamide gel electrophoretic evaluation and has a specific activity of not less than 190 Factor IX units per mg total protein.

All Source Plasma used in the manufacture of this product was tested by FDA-licensed Nucleic Acid Testing (NAT) for HIV, HCV, and HIV-1 and found to be nonreactive (negative). This concentrate has been processed by monoclonal antibody immunofinity chromatography during its manufacture, which has been shown to be capable of reducing the risk of viral transmission. Additionally, a chemical treatment protocol and nanofiltration used in its manufacture have also been shown to be capable of significant virus reductions. However, no procedure has been shown to be totally effective in removing the risk of viral infection from coagulation factor concentrates (see CLINICAL PHARMACOLOGY and WARNINGS).

MONONINE is a purified preparation of Factor IX. When stored as directed, it will maintain its labeled potency for the period indicated on the container label. Each vial contains the labeled amount of Factor IX activity expressed in International Units (IU). One IU represents the activity of Factor IX present in 1 mL of normal, pooled plasma. When reconstituted as recommended, the resulting solution is a clear, colorless, isotonic preparation of neutral pH, containing approximately 100 times the Factor IX potency found in an equal volume of plasma. Each ml of the reconstituted concentrate contains approximately 100 IU of Factor IX and non-detectable levels of Factors II, VII and X (<0.001 IU per Factor IX unit using standard coagulation assays). Each vial also contains histidine (approx. 10 mM), sodium chloride (approx. 0.066M), mannitol (approx. 3%) and polysorbate 80 (approx. 0.0075%). Hydrochloric acid and/or sodium hydroxide may have been used to adjust pH. MONONINE also contains trace amounts (≤50 ng mouse protein/100 Factor IX activity units) of the murine monoclonal antibody used in its purification (see CLINICAL PHARMACOLOGY).

MONONINE is to be administered only intravenously.

CLINICAL PHARMACOLOGY
Hemophilia B, or Christmas disease, is an X-linked recessively inherited disorder of blood coagulation characterized by insufficient or abnormal synthesis of the clotting protein Factor IX. Factor IX is a vitamin K-dependent coagulation factor which is synthesized in the liver. Factor IX is activated by Factor XIa in the intrinsic coagulation pathway. Activated Factor IX (IXa), in combination with Factor VIII:C, activates Factor X to Xa, resulting ultimately in the conversion of prothrombin to thrombin and the formation of a fibrin clot. The infusion of exogenous Factor IX to replace the deficiency present in Hemophilia B temporarily restores hemostasis. Depending upon the subject’s level of biologically active Factor IX, clinical symptoms range from moderate skin bruising or excessive hemorrhage after trauma or surgery to spontaneous hemorrhage into joints, muscles or internal organs including the brain. Severe or recurring hemorrhages can produce death, organ dysfunction or orthopedic deformity.

Infusion of Factor IX Concentrate that contain varying but significant amounts of the other liver-dependent blood coagulation factors (Factors II, VII and X) into subjects with Hemophilia B, results in Factor IX recoveries ranging from approximately 0.57-1.1 IU/dl rise per IU/kg body weight infused with plasma half-lives for Factor IX ranging from approximately 23 hours to 31 hours.1,2 Infusion of MONONINE into ten subjects with severe or moderate Hemophilia B has shown a mean recovery of 0.67 IU/dl rise per IU/kg body weight infused and a mean half-life of 22.6 hours.3 After six months of experience with repeated infusions performed on the nine subjects who remained in the study, it was shown that the half-life and recovery was maintained at a level comparable to that found with the initial infusion. The six-month data showed a mean recovery of 0.68 IU/dl rise per IU/kg body weight infused and a mean half-life of 25.3 hours.4 The data show no statistically significant differences between the initial and six-month values. Two studies were conducted to provide MONONINE for treatment of hemophilia B subjects who required Factor IX replacement for surgical procedures (73 unique subjects and eight subjects enrolled twice for a total of 81 subjects), as well as to evaluate the safety and efficacy of MONONINE. The overall mean recovery during treatment was determined to be 1.23 ± 0.42 IU/dl rise/IU/kg (K = range = 0.59 to 2.92 K) among the 55 subjects included in recovery analyses in the one study and to 1.12 ± 0.52 K (range = 0.61 to 2.08 K) among 10 subjects included in these analyses in the second study. Five (38.1%, 61%) subjects reported adverse reactions across the two studies. In these studies, 100 doses of MONONINE were administered at what are considered high doses for a Factor IX concentrate, a range of 71 to 161 IU/kg to a total of 36 subjects. Sixty-seven (67) of these infusions were the subject of recovery analyses. Mean recovery tended to decrease as the dose of MONONINE increased: 1.09 ± 0.52 K at doses >75-95 IU/kg (n=38), 0.98 ± 0.45 K at doses >95-115 IU/kg (n=21), 0.70 ± 0.38 K at doses >115-135 IU/kg (n=2), 0.67 K at doses >135-155 IU/kg (n=1), and 0.73 ± 0.34 K at doses >155 IU/kg (n=5). Among the 36 subjects who received these high doses, only one (2.8%) reported an adverse experience with a possible relationship to MONONINE ("difficulty in concentrating"; subject recovered). In no subjects were thrombogenic complications observed or reported.4

The manufacturing procedure for MONONINE includes multiple processing steps that have been designed to reduce the risk of virus transmission. Validation studies of the monoclonal antibody (MAb) immunoaffinity chromatography/chemical treatment step and nanofilfillation step used in the production of MONONINE document the virus reduction capacity of the processes employed. These studies were conducted using the relevant enveloped and non-enveloped viruses. The results of these virus validation studies utilizing a wide range of doses with different characteristics are summarized in Table 1 below:

<table>
<thead>
<tr>
<th>Table 1: Cumulative (log10) Virus Inactivation/Removal in MONONINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturing Step</td>
</tr>
<tr>
<td>HIV-1</td>
</tr>
<tr>
<td>MAb Chromatography</td>
</tr>
<tr>
<td>Nanofiltration</td>
</tr>
</tbody>
</table>
| Cumulative Virus Reduction (log_{10}) | ≥10.2 | ≥12.6 | ≥16.1 | ≥12.8 | ≥6.7 | ≥8.2

| HAV, Human immunodeficiency virus type 1, model for HIV-1 and HIV-2 |
| BVDV, Bovine viral diarrhea virus, model for porcine parvovirus |
| PRV, Pseudorabies virus, model for large enveloped DNA viruses, e.g. herpes |
| WNV, West Nile virus |
| HAV, Hepatitis A virus |

* Animal Parvoviruses employed in virus validation studies. 1 CPr, canine parvovirus, model for B19V (parvovirus B19).
| 2 PPV, porcine parvovirus, model for B19V |

| § Not included in the calculation of the cumulative virus reduction factor. |

| $ \text{Lowest virus reduction factor of all experiments.}$ |

CLINICAL STUDIES
A total safety of MONONINE has been studied in clinical trials of two cohorts of hemophilia B subjects previously unexposed to blood or blood products.5 One cohort of subjects included those with moderate to severe factor IX deficiency requiring chronic replacement therapy (41 subjects were dosed); the second cohort included subjects with a mild deficiency requiring factor IX replacement for surgical procedures (10 subjects were dosed). These subjects were followed for serum alanine aminotransferase (ALT) elevations, as well as for a range of viral serologies. Thirty-seven (37) subjects (30 with moderate to severe deficiency and seven with a mild deficiency) were evaluable for assessment of virus hepatitis safety by the International Society on Thrombosis and Haemostasis-Scientific and Standardization Committee criteria. None of these subjects showed evidence of transmission of hepatitis A, B, C, or HIV. MONONINE contains trace amounts of the murine monoclonal antibody (MAb) used in its purification (≤50 ng mouse protein/100 IU). While the levels of mouse protein are extremely low, infusion of such proteins might theoretically induce human anti-mouse antibody (HAMA) responses. To test this possibility, human IgG, IgM, and IgE antibodies to mouse IgG were assessed by immunoradiometric assay (IRMA) in 11 hemophilia B subjects who received MONONINE and were previously untreated with other blood products. HAMAs were evaluated prior to the first infusion and at 2 to 42 months after initial treatment. Human IgG antibodies to mouse IgG were below the level of detectability at all time points for all subjects, and there were no statistically significant increases in either human IgG antibodies or human IgM antibodies to mouse protein.4 In clinical studies of MONONINE subjects were monitored for evidence of disseminated intravascular coagulation. In six subjects evaluated after infusion, fibrinogen levels and platelet counts were unchanged, and fibrin degradation products did not appear.6

In further clinical evaluations of MONONINE in a crossover study with a Factor IX Complex concentrate, MONONINE was not associated with the formation of prothrombin activation fragment (F1+2) whereas the Factor IX Complex was associated with the formation of prothrombin activation fragment (F1+2).1,7 Prothrombin activation fragment (F1+2) is indicative of activation of prothrombin.

During the period from 1992 to 1996, five subjects showed transient ALT elevations that were greater than twice the upper normal limit. These subjects were investigated thoroughly and none of the ALT elevations was associated with seroconversion. In three of the five subjects, a single ALT elevation greater than 2 times the upper limit of normal was recorded during the course of the study. No concomitant symptoms occurred and the virus hepatitis serology tests did not reveal any abnormalities. In addition, in one of these three subjects with single ALT elevations, a relationship to MONONINE could be excluded due to a span of 18 months between the infusion of MONONINE and occurrence of the elevated ALT levels. None of the two remaining subjects, the ALT level had been elevated prior to the first infusion of MONONINE and normalized thereafter. Subsequently, this subject’s ALT levels were elevated intermittently over a period of 24 months, which appeared to be temporally related to the administration of concomitant medications: acetaminophen, amoxicillin, cephalexin and halothane. These medications are known to cause liver enzyme elevations. Further, there were no clinical signs of viral hepatitis, nor any other viral disease in these four subjects. The remaining subject of the five was found to have recurring ALT elevations that persisted for a period of five months, gradually decreasing to
normal levels. Approximately three days after his first MONONINE infusion this subject received hepatitis B immune globulin and his first injection of hepatitis B vaccine. At that time, the subject’s ALT level was slightly above the upper limit of normal (55 IU/L, upper limit of normal: 35). Five days later, the subject experienced flu-like symptoms, nausea and vomiting, which were treated with ampicillin and promethazine. The ALT value recorded was well within the normal limit of normal: 35). Five days later, the subject experienced flu-like symptoms, nausea and vomiting, which were treated with ampicillin and promethazine. The ALT value recorded was well within

**Limitation of Use**

MONONINE contains non-detectable levels of Factors II, VII and X (<0.0025 IU per Factor IX unit using standard coagulation assays) and is, therefore, not indicated for replacement therapy of these clotting factors. MONONINE is also not indicated in the treatment or reversal of coumarin-induced anticoagulation or in a hemorrhagic state caused by hepatitis-induced lack of production of liver dependent coagulation factors.

**CONTRAINDICATIONS**

Knew hypersensitivity to mouse protein is a contraindication to MONONINE.

**WARNINGS**

Transmissible Infectious Agents

MONONINE is made from human plasma. Products made from human plasma may contain infectious agents, such as viruses, that can cause disease. Because MONONINE is made from human blood, it may carry a risk of transmitting infectious agents, e.g., viruses, the variant Creutzfeldt-Jakob disease (vCJD) agent and, theoretically, the Creutzfeldt-Jakob disease (CJD) agent. The risk that such products will transmit an infectious agent has been reduced by screening plasma donors for prior exposure to certain viruses, by testing for the presence of certain current viral infections and by inactivating and/or removing certain viruses during manufacture (see DESCRIPTION section for virus reduction measures). The manufacturing procedure for MONONINE includes processing steps designed to reduce further the risk of virus transmission. Stringent procedures, utilized at plasma collection centers, plasma testing laboratories, and fractionation facilities are designed to reduce the risk of virus transmission. The primary virus reduction step of the MONONINE manufacturing process is the use of a nanofilter designed to separate viruses from Factor IX. In addition, the purification procedure (several chromatography steps) used in the manufacture of MONONINE also provides virus reduction capacity. Despite these measures, such products may still potentially contain human pathogenic agents, including those not yet known or identified. Thus the risk of transmission of infectious agents cannot be totally eliminated. Any infections thought by a physician possibly to have been transmitted by this product should be reported by the physician or other healthcare provider to CSL Behring at 1-866-915-6958 (in the U.S. and Canada). The physician should discuss the risks and benefits of this product with the patient. Individuals who receive infusions of blood or plasma products may develop signs and/or symptoms of some viral infections, particularly nonA, nonB hepatitis. (See Information For Patients.)

**Cardiovascular Complications**

Since the use of Factor IX Complex concentrates has historically been associated with the development of thromboembolic complications, the use of Factor IX-containing products may be potentially hazardous in patients with signs of fibrinolysis and in patients with disseminated intravascular coagulation (DIC). In patients with existing cardiovascular risk factors, substitution therapy with FIX may increase the cardiovascular risk.

**Hypersensitivity Reactions**

Hypersensitivity and allergic type hypersensitivity reactions, including anaphylaxis, have been reported for all factor IX products. Frequently, these events have occurred in close temporal association with the development of factor IX inhibitors. Patients should be informed of the early symptoms and signs of hypersensitivity reactions, including hives, generalized urticaria, angioedema, chest tightness, dyspnea, wheezing, faintness, hypotension, tachycardia, and anaphylaxis. Patients should be advised to discontinue use of product and contact their physician and/or seek immediate emergency care, depending on the severity of the reaction, if any of these symptoms occur.

**Neutralizing Antibodies**

Preliminary information suggests a relationship may exist between the presence of major deletion mutations in the factor IX gene and an increased risk of inhibitor formation and of acute hypersensitivity reactions. Patients known to have major deletion mutations of the factor IX gene should be observed closely for signs and symptoms of acute hypersensitivity reactions, particularly during the early phases of initial exposure to product.

**Nephrotic Syndrome**

Nephrotic syndrome has been reported following attempted immune tolerance induction with factor IX products in Hemophilia B patients with factor IX inhibitors and a history of severe allergic reactions to factor IX. The safety and efficacy of using MONONINE in attempted immune tolerance induction has not been established.

**PRECAUTIONS**

**Thromboembolism**

Extensive clinical experience suggests that there is a lower risk of thromboembolic complications with the use of MONONINE than with prothrombin complex concentrates. However, as with all products containing Factor IX, consider the risk of thromboembolism when administering MONONINE to patients with liver disease, to patients post-operatively, to neonates, or to patients at risk of thromboembolic phenomena or DIC.5 In each of these situations, the potential benefit of treatment with MONONINE should be weighed against the potential risk of these complications.

**Hypersensitivity**

MONONINE should be administered intravenously at a rate that will permit observation of the patient for any immediate reaction. Rates of infusion of up to 225 IU per minute have been regularly tolerated with no adverse reactions. If any reaction takes place that is thought to be related to the administration of MONONINE, the rate of infusion should be decreased or the infusion stopped, as dictated by the response of the patient. The infusion should be stopped promptly and appropriate countermeasures and supportive therapy should be administered should evidence of an acute hypersensitivity reaction be observed. Patients known to have major deletion mutations of the factor IX gene may be at increased risk for inhibitor formation and acute hypersensitivity reactions. (See WARNINGS.)

No controlled studies have been available regarding the use of epsilon-amino caproic acid or other antifibrinolytic agents following an initial infusion of MONONINE for the prevention or treatment of oral bleeding following trauma or dental procedures such as extractions.

**Information For Patients**

Patients should be informed of the early symptoms and signs of hypersensitivity reactions including hives, generalized urticaria, tightness of the chest, dyspnea, wheezing, faintness, hypotension, and anaphylaxis. Patients should be advised to discontinue use of the product and contact their physician and/or seek immediate emergency care, depending on the severity of the reaction, if these symptoms occur. Some viruses such as hepatitis A are particularly difficult to remove or inactivate at this time. Although the overwhelming number of hepatitis A cases are community acquired, there have been reports of these infections associated with the use of some plasma-derived products. Therefore, physicians should be alert to the potential symptoms of hepatitis A infections and inform patients under their supervision receiving plasma-derived products to consult their physicians if such symptoms occur.

**Pregnancy**

Animal reproduction studies have not been conducted with MONONINE. It is also not known whether MONONINE can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. MONONINE should be given to a pregnant woman only if clearly needed.

**Pediatric Use**

Evaluation of the safety and effectiveness of MONONINE treatment in 51 pediatric patients between the ages of 1 day and 20 years, as a part of virus safety trials and trials for surgery, trauma or spontaneous bleeding, showed that excellent hemostasis was achieved with no thrombotic complications.10 Included in the experience with patients aged birth to 20 years are two long-term virus safety studies demonstrating lack of virus transmission. Dosing in children is based on body weight and is usually based on the same guidelines as for adults (see DOSAGE AND ADMINISTRATION).

**Geriatric Use**

Clinical studies of MONONINE did not include sufficient numbers of patients aged 65 and over to determine whether they respond differently from younger patients. As for all patients, dosing for geriatric patients should be appropriate to their overall situation.

**ADVERSE REACTIONS**

**Clinical Trials**

As with the intravenous administration of other plasma-derived products, the following reactions may be observed following administration: headache, fever, chills, flushing, nausea, vomiting, tingling, lethargy, hives, stinging or burning at the infusion site or manifestations
of allergic reactions. In a clinical study with MONONINE in previously untreated hemophilia B patients, five patients experienced ALT elevations. Serologic tests for hepatitis A, hepatitis B, hepatitis C, Cytomegalovirus, and Epstein-Barr virus were negative.

**Postmarketing Experience**

The following adverse reactions have been spontaneously reported during post-marketing use of MONONINE as well as other Factor IX products: anaphylaxis, angioedema, cyanosis, dyspnea, hypotension, thrombosis, inadequate therapeutic response, and inhibitor development.

There have been postmarketing literature reports of nephrotic syndrome in hemophilia patients with a history of hypersensitivity reactions and inhibitor development after FIX product use requiring high dose MONONINE immune tolerance induction (see **WARNINGS** and **PRECAUTIONS**). There is a potential risk of thromboembolic episodes following the administration of MONONINE (see **WARNINGS** and **PRECAUTIONS**).

The patient should be monitored closely during the infusion of MONONINE to observe for the development of any reaction. If any reaction takes place that is thought to be related to the administration of MONONINE, the rate of infusion should be decreased or the infusion stopped, as dictated by the response of the patient. Should evidence of an acute hypersensitivity reaction be observed, the infusion should be stopped promptly and appropriate countermeasures and supportive therapy should be administered.

**DOSAGE AND ADMINISTRATION**

MONONINE is intended for intravenous administration only. It should be reconstituted with the volume of Sterile Water for Injection, USP supplied with the lot, and administered within three hours of reconstitution. Do not refrigerate after reconstitution. After administration, any unused solution and the administration equipment should be discarded.

As a general rule, 1 IU of Factor IX activity per kg can be expected to increase the circulating level of Factor IX by 1% [IU/dL] of normal. The following formula provides a guide to dosage calculations:

\[
\text{IU required (IU)} = \text{Body Weight (kg)} \times \text{desired Factor IX level (IU/dL)} \times \frac{1.0 \text{ IU/kg}}{(\text{IU required (IU) (in kg) increase (% or IU/dL normal) [per IU/dL]}}
\]

The amount of MONONINE to be infused, as well as the frequency of infusions, will vary with each patient and with the clinical situation. As a general rule, the level of Factor IX required for treatment of different conditions is as follows:

- **Minor Spontaneous Hemorrhage**
- **Hemorrhage, Prophylaxis**
- **or Surgery**

<table>
<thead>
<tr>
<th>Desired Level of Factor IX (IU/dL)</th>
<th>15-25%</th>
<th>25-50%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Initial Loading</strong></td>
<td>up to 20-30 IU/kg</td>
<td>up to 75 IU/kg</td>
</tr>
<tr>
<td><strong>Frequency of dosing</strong></td>
<td>once; repeated in 18-30 hours, depending on $T_{\text{on}}$ and measured Factor IX levels</td>
<td></td>
</tr>
<tr>
<td><strong>Duration of treatment</strong></td>
<td>if necessary up to ten days, depending upon nature of insult</td>
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</tbody>
</table>

Recovery of the loading dose varies from patient to patient. Doses administered should be titrated to the patient’s response. MONONINE administered in doses of ≥75 IU/kg were well tolerated (see **CLINICAL PHARMACOLOGY**). In the presence of an inhibitor to Factor IX, higher doses of MONONINE might be necessary to overcome the inhibitor (see **PRECAUTIONS**). No data on the treatment of patients with inhibitors to Factor IX with MONONINE are available.

For information on rate of administration, see **Rate of Administration**, below.

**Reconstitution**

Follow the steps provided below for the preparation and reconstitution of MONONINE:

- Check the expiration date on the vial label and carton. Do not use MONONINE after the expiration date.
- Check packaging for damage. Do not use MONONINE if the packaging is damaged or appears to be tampered with.
- Reconstitute MONONINE using aseptic technique to maintain product sterility.

1. Ensure that the MONONINE vial and Sterile Water for Injection vial are at room temperature.
2. Remove the plastic flip-top cap from the Sterile Water for Injection vial.
3. Wipe the rubber stopper of the Sterile Water for Injection vial with antiseptic solution and allow it to dry.
4. Open the Mix2Vial™ filter transfer set by peeling off the lid (Fig. 1). Do not remove the transfer set from the blister package.
5. Place the Sterile Water for Injection vial on an even, clean surface and hold the vial tight. Take the transfer set together with the blister package and vertically pierce the Sterile Water for Injection vial with the blue tip of the transfer set (Fig. 2).
6. Carefully remove the blister package from the transfer set by holding at the rim, and pulling vertically upwards. Make sure that you only pull away the blister package and not the transfer set (Fig. 3).
7. Remove the plastic flip-top cap from the MONONINE vial.
8. Wipe the rubber stopper of the MONONINE vial with antiseptic solution and allow it to dry.
9. Place the MONONINE vial on an even and firm surface. Invert the Sterile Water for Injection vial with the transfer set attached and vertically pierce the MONONINE vial with the clear tip of the transfer set (Fig. 4). The Sterile Water for Injection will automatically flow into the MONONINE vial.

**NOTE:** Ensure all water has transferred into the MONONINE vial.

10. With one hand, grasp the MONONINE side of the transfer set and with the other hand grasp the Sterile Water for Injection side of the transfer set. Carefully unscrew the set counterclockwise into two pieces (Fig. 5). Discard the Sterile Water for Injection vial with the blue end of the transfer set attached.
11. Gently swirl the MONONINE vial until the powder is completely dissolved (Fig. 6). DO NOT SHAKE.
12a. Draw air into an empty, sterile syringe.

12b. While the MONONINE vial is upright, connect the syringe to the transfer set Luer Lock fitting by screwing clockwise. Inject air into the MONONINE vial (Fig. 7).

13. While keeping the syringe plunger pressed, turn the system upside down and draw the solution into the syringe by pulling the plunger back slowly (Fig. 8).

14. Now that the solution has been transferred into the syringe, firmly hold on to the barrel of the syringe (keeping the syringe plunger facing down) and disconnect the clear transfer set adapter from the syringe by unscrewing counterclockwise (Fig. 9).

Rate of Administration

The rate of administration should be determined by the response and comfort of the patient; intravenous dosage administration rates of up to 225 IU/minute have been regularly tolerated without incident. When reconstituted as directed, i.e., to approximately 100 IU/mL, MONONINE should be administered at a rate of approximately 2.0 mL per minute.

Storage

When stored at refrigerator temperature, 2-8°C (36-46°F), MONONINE is stable for the period indicated by the expiration date on its carton and vial label. Within this period, MONONINE may be stored at room temperature not to exceed 25°C (77°F), for up to one month. Avoid freezing, which may damage container for the diluent.

How Supplied

MONONINE is supplied in a single dose vial with Sterile Water for Injection, USP, and a Mix2Vial filter transfer set for reconstitution and withdrawal. Factor IX activity in IU is stated on the carton and vial label.

Each product package consists of the following:

<table>
<thead>
<tr>
<th>NDC Number</th>
<th>Component</th>
<th>Approximate Fix Activity (IU)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0053-6232-02</td>
<td>Carton (kit) containing:</td>
<td>300 (MID)</td>
</tr>
<tr>
<td>0053-6233-02</td>
<td>Carton (kit) containing:</td>
<td>1000 (HIGH)</td>
</tr>
<tr>
<td>One Mix2Vial filter transfer set.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>One Mix2Vial filter transfer set.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>One vial of MONONINE [NDC 0053-6242-01],</td>
<td></td>
<td></td>
</tr>
<tr>
<td>One vial of MONONINE [NDC 0053-6243-01],</td>
<td></td>
<td></td>
</tr>
<tr>
<td>One 5 mL vial of Sterile Water for Injection, USP (diluent) [NDC 0053-7653-06], and</td>
<td></td>
<td></td>
</tr>
<tr>
<td>One Mix2Vial filter transfer set.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>One 5 mL vial of Sterile Water for Injection, USP (diluent) [NDC 0053-7653-11], and</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

References


Manufactured by:

CSL Behring LLC
Kankakee, IL 60901 USA
US License No. 1767
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