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1 **Hepatitis B Immune Globulin (Human)**  
2 **Nabi-HB™**  
3 *Solvent/Detergent Treated and Filtered*  
4

### 5 **DESCRIPTION**

6 Hepatitis B Immune Globulin (Human), Nabi-HB™, is a sterile solution of  
7 immunoglobulin ( $5 \pm 1\%$  protein) containing antibodies to hepatitis B surface antigen  
8 (anti-HBs). It is prepared from plasma donated by individuals with high titers of anti-  
9 HBs. The plasma is purified by an anion-exchange column chromatography method<sup>1,2</sup>  
10 with two added viral reduction steps described below. The product is formulated in  
11 0.075 M sodium chloride, 0.15 M glycine, and 0.01% polysorbate 80, pH 6.25. It  
12 contains no preservative and is intended for single use by the intramuscular route only.  
13 The product appears as a clear to opalescent, nonturbid liquid.

14  
15 The manufacturing steps are designed to reduce the risk of transmission of viral  
16 disease. The solvent/detergent treatment step, using tri-n-butyl phosphate and Triton®  
17 X-100, is effective in inactivating known enveloped viruses such as hepatitis B virus  
18 (HBV), hepatitis C virus (HCV), and human immunodeficiency virus (HIV).<sup>3</sup> Virus  
19 filtration, using a Planova® 35 nm Virus Filter, is effective in reducing some known  
20 enveloped and non-enveloped viruses.<sup>4</sup> The inactivation and reduction of known  
21 enveloped and non-enveloped model viruses were validated in laboratory studies as  
22 summarized in the following table:

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**Table 1 Log Reduction of Test Viruses<sup>5</sup>**

Model Virus: Envelope/Genome: Manufacturing Step	Test Virus				
	HIV HIV yes/RNA	BVD HCV yes/RNA	PRV HBV yes/DNA	Polio Hepatitis A no/RNA	BPV PVB19 no/DNA
dextran sulfate	NT	NT	NT	3.32	< 1
anion-exchange	NT	NT	NT	> 3.52	> 5.34
solvent/detergent	> 4.67	> 7.43	> 5.26	2.7	> 5.81
virus filtration	> 6.02	> 7.30	> 6.77	4.25	> 4.97

25 BVD = Bovine Viral Diarrhea                      PRV = Pseudorabies Virus                      Polio = Poliovirus  
26 BPV = Bovine Parvovirus                      PVB19 = Parvovirus B19                      NT = not tested

27  
28  
29 The product potency is expressed in international units (IU) by comparison to the World  
30 Health Organization (WHO) standard. Each vial contains greater than 312 IU/mL anti-  
31 HBs. The potency of each vial of Nabi-HB™ exceeds the potency of anti-HBs in a U.S.  
32 reference hepatitis B immune globulin (FDA). The U.S. reference has been tested by  
33 Nabi® against the WHO standard and found to be equal to 208 IU/mL.

34

35 **CLINICAL PHARMACOLOGY**

36 Hepatitis B Immune Globulin (Human) products provide passive immunization for  
37 individuals exposed to the hepatitis B virus as evidenced by a reduction in the attack  
38 rate of hepatitis B following use.<sup>6-9</sup>

39

40 Clinical studies conducted prior to 1983 with hepatitis B immune globulins similar to  
41 Nabi-HB™<sup>10,11</sup> indicate the advantage of simultaneous administration of Hepatitis B  
42 Vaccine and Hepatitis B Immune Globulin (Human). The Centers for Disease Control  
43 and Prevention Advisory Committee on Immunization Practices (ACIP) advises that the  
44 combination prophylaxis be provided based upon the increased efficacy found with that

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45 regimen in neonates.<sup>12</sup> Cases of hepatitis B are rarely seen following exposure to HBV  
46 in persons with preexisting anti-HBs. However, no prospective studies have been  
47 performed on the efficacy of concurrent Hepatitis B Vaccine and Hepatitis B Immune  
48 Globulin (Human) administration following parenteral exposure, mucous membrane  
49 contact, or oral ingestion in adults.

50  
51 Infants born to HBsAg-positive mothers are at risk of being infected with HBV and  
52 becoming chronic carriers.<sup>13</sup> The risk is especially great if the mother is also HBeAg-  
53 positive.<sup>14</sup> Studies conducted with hepatitis B immune globulins similar to Nabi-HB™  
54 indicated that for an infant with perinatal exposure to an HBsAg-positive and HBeAg-  
55 positive mother, a regimen combining one dose of Hepatitis B Immune Globulin  
56 (Human) at birth with the Hepatitis B Vaccine series started soon after birth is 85-98%  
57 effective in preventing development of the HBV carrier state.<sup>15-17</sup> Regimens involving  
58 either multiple doses of Hepatitis B Immune Globulin (Human) alone or the vaccine  
59 series alone have a 70-90% efficacy, while a single dose of Hepatitis B Immune  
60 Globulin (Human) alone has 50% efficacy.<sup>18</sup>

61  
62 Since infants have close contact with primary caregivers and they have a higher risk of  
63 becoming HBV carriers after acute HBV infection, prophylaxis of an infant less than 12  
64 months of age with Hepatitis B Immune Globulin (Human) and Hepatitis B Vaccine is  
65 indicated if the mother or primary caregiver has acute HBV infection.<sup>19</sup>

66  
67 Sexual partners of HBsAg-positive persons are at increased risk of acquiring HBV

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68 infection. A single dose of Hepatitis B Immune Globulin (Human) is 75% effective if  
69 administered within two weeks of the last sexual exposure to a person with acute  
70 hepatitis B.<sup>19</sup>

71

### 72 **Pharmacokinetics**

73 Pharmacokinetics trials<sup>20</sup> of Nabi-HB™, Hepatitis B Immune Globulin (Human), given  
74 intramuscularly to 48 healthy volunteers demonstrate pharmacokinetic parameters  
75 similar to those reported by Scheiermann and Kuwert.<sup>21</sup> The half-life for Nabi-HB™  
76 was  $24.8 \pm 5.6$  days. The clearance rate was  $0.433 \pm 0.144$  L/day and the volume of  
77 distribution was  $15.3 \pm 6.2$  L.

78

79 Maximum concentration of Nabi-HB™ was reached in  $6.6 \pm 3.0$  days. The maximum  
80 concentration of anti-HBs achieved by Nabi-HB™ was consistent with that of another  
81 licensed Hepatitis B Immune Globulin (Human) when compared in the same  
82 -pharmacokinetics trial. Comparability of pharmacokinetics between Nabi-HB™ and a  
83 commercially available hepatitis B immunoglobulin indicate that similar efficacy of Nabi-  
84 HB™ should be inferred.

85

### 86 **INDICATIONS AND USAGE**

87 Nabi-HB™, Hepatitis B Immune Globulin (Human), is indicated for treatment of acute  
88 exposure to blood containing HBsAg, perinatal exposure of infants born to HBsAg-  
89 positive mothers, sexual exposure to HBsAg positive persons and household exposure

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90 to persons with acute HBV infection in the following settings:

91

92 • Acute Exposure to Blood Containing HBsAg

93 Following either parenteral exposure (needlestick, bite, sharps), direct mucous  
94 membrane contact (accidental splash), or oral ingestion (pipetting accident),  
95 involving HBsAg-positive materials such as blood, plasma or serum.

96

97 • Perinatal Exposure of Infants Born to HBsAg-positive Mothers

98 Infants born to mothers positive for HBsAg with or without HBeAg.<sup>12</sup>

99

100 • Sexual Exposure to HBsAg-positive Persons

101 Sexual partners of HBsAg-positive persons.

102

103 • Household Exposure to Persons with Acute HBV Infection

104 Infants less than 12 months old whose mother or primary caregiver is positive for

105 HBsAg. Other household contacts with an identifiable blood exposure to the index  
106 patient.

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108 Nabi-HB™ is indicated for intramuscular use only.

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### 109 **CONTRAINDICATIONS**

110 Individuals known to have had an anaphylactic or severe systemic reaction to human  
111 globulin should not receive Nabi-HB™, Hepatitis B Immune Globulin (Human), or any  
112 other human immune globulin. Nabi-HB™ contains less than 40 micrograms/mL IgA.  
113 Individuals who are deficient in IgA may have the potential to develop IgA antibodies  
114 and have an anaphylactoid reaction. The physician must weigh the potential benefit of  
115 treatment with Nabi-HB™ against the potential for hypersensitivity reactions.

116

### 117 **WARNINGS**

118 In patients who have severe thrombocytopenia or any coagulation disorder that would  
119 contraindicate intramuscular injections, Nabi-HB™, Hepatitis B Immune Globulin  
120 (Human), should be given only if the expected benefits outweigh the potential risks.

121

122 **Nabi-HB™ is made from human plasma. Products made from human plasma may**  
123 **contain infectious agents, such as viruses, that can cause disease. The risk that**  
124 **such products can transmit an infectious agent has been reduced by screening**  
125 **plasma donors for prior exposure to certain viruses, by testing for the presence**  
126 **of certain current viral infections, and by inactivating and/or reducing certain**  
127 **viruses. The Nabi-HB™ manufacturing process includes a solvent/detergent**  
128 **treatment step (using tri-n-butyl phosphate and Triton® X-100) that is effective in**  
129 **inactivating known enveloped viruses such as HBV, HCV, and HIV. Nabi-HB™ is**  
130 **filtered using a Planova® 35 nm Virus Filter that is effective in reducing the levels**

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131 of some enveloped and non-enveloped viruses. These two processes are  
132 designed to increase product safety. Despite these measures, such products  
133 can still potentially transmit disease. There is also the possibility that unknown  
134 infectious agents may be present in such products. ALL infections thought by a  
135 physician possibly to have been transmitted by this product should be reported  
136 by the physician or other health care provider to Nabi at 1-800-458-4244. The  
137 physician should discuss the risks and benefits of this product with the patient.

138

### 139 PRECAUTIONS

#### 140 General

141 Nabi-HB™, Hepatitis B Immune Globulin (Human), must be administered only  
142 intramuscularly for post-exposure prophylaxis. The preferred sites for intramuscular  
143 injections are the anterolateral aspect of the upper thigh and the deltoid muscle of the  
144 upper arm. If the buttock is used due to the volume to be injected, the central region  
145 should be avoided; only the upper, outer quadrant should be used, and the needle  
146 should be directed anteriorly (i.e., not inferiorly or perpendicular to the skin) to minimize  
147 the possibility of involvement with the sciatic nerve.<sup>22</sup>

148

#### 149 Drug Interactions

150 Vaccination with live virus vaccines should be deferred until approximately three  
151 months after administration of Nabi-HB™, Hepatitis B Immune Globulin (Human). It  
152 may be necessary to revaccinate persons who received Nabi-HB™ shortly after live  
153 virus vaccination.

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155 There are no available data on concomitant use of Nabi-HB™ and other drugs;  
156 therefore, Nabi-HB™ should not be mixed with other drugs.

157

### 158 **Pregnancy Category C**

159 Animal reproduction studies have not been conducted with Nabi-HB™. It is also not  
160 known whether Nabi-HB™ can cause fetal harm when administered to a pregnant  
161 woman or can affect reproduction capacity. Nabi-HB™ should be given to a pregnant  
162 woman only if clearly indicated.

163

### 164 **Nursing Mothers**

165 It is not known whether this drug is excreted in human milk. Because many drugs are  
166 excreted in human milk, caution should be exercised when Nabi-HB™ is administered  
167 to a nursing mother.

168

### 169 **Pediatric Use**

170 Safety and effectiveness in the pediatric population have not been established for  
171 Nabi-HB™. However, the safety and effectiveness of similar Hepatitis B immune  
172 globulins have been demonstrated in infants and children.<sup>12</sup>

173

### 174 **ADVERSE REACTIONS**

175 Seventy-six male and female volunteers received Nabi-HB™ Hepatitis B Immune  
176 Globulin (Human), intramuscularly in pharmacokinetics trials.<sup>20</sup> The number of patients

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177 with reactions related to the administration of Nabi-HB™ included local reactions such  
178 as pain 9 (12%), ache 2 (3%), erythema 2 (3%), heat 1 (1%), and burning 2 (3%) at the  
179 injection site, as well as systemic reactions such as headache 20 (26%), malaise 4  
180 (5%), nausea 4 (5%), diarrhea 2 (3%) and myalgia 4 (5%). The majority of reactions  
181 were reported as mild. The following adverse events were reported once each in  
182 pharmacokinetics trials and were probably related to Nabi-HB™: chills, fatigue,  
183 lightheadedness, abdominal cramping, and retching. There were no serious adverse  
184 events.

185

186 No anaphylactic reactions with Nabi-HB have been reported. However, these  
187 reactions, although rare, have been reported following the injection of human immune  
188 globulins.<sup>23</sup>

189

### 190 OVERDOSAGE

191 Although no data are available, clinical experience reported with other human immune  
192 globulins suggests that the only manifestations of overdose with Nabi-HB™, Hepatitis B  
193 Immune Globulin (Human), would be pain and tenderness at the injection site.

194

### 195 DOSAGE AND ADMINISTRATION

196 This product is for intramuscular use only. The use of this product by the intravenous  
197 route is not indicated. Parenteral drug products should be inspected visually for  
198 particulate matter and discoloration prior to administration.

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200 It is important to use a separate vial, sterile syringe, and needle for each individual  
201 patient, in order to prevent transmission of infectious agents from one person to  
202 another. **Any vial of Nabi-HB™, Hepatitis B Immune Globulin (Human) that has**  
203 **been entered should be used promptly. Do not reuse or save for future use. This**  
204 **product contains no preservative; therefore, partially used vials should be**  
205 **discarded immediately.**

206

207 Hepatitis B Immune Globulin (Human) may be administered at the same time (but at a  
208 different site), or up to one month preceding hepatitis B vaccination without impairing  
209 the active immune response to Hepatitis B Vaccine.<sup>11</sup>

210

211 • Acute Exposure to Blood Containing HBsAg

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213 Table 2 summarizes prophylaxis for percutaneous (needlestick, bite, sharps),  
214 ocular, or mucous membrane exposure to blood according to the source of  
215 exposure and vaccination status of the exposed person. For greatest effectiveness,  
216 passive prophylaxis with Hepatitis B Immune Globulin (Human) should be given as  
217 soon as possible after exposure, as its value after seven days following exposure is  
218 unclear.<sup>12</sup> An injection of 0.06 mL/kg of body weight should be administered  
219 intramuscularly as soon as possible after exposure and within 24 hours, if possible.

220 Consult the Hepatitis B Vaccine package insert for dosage information regarding the  
221 vaccine.

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223 For persons who refuse Hepatitis B Vaccine or are known non-responders to  
224 vaccine, a second dose of Hepatitis B Immune Globulin (Human) should be given  
225 one month after the first dose.<sup>12</sup>

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**Table 2 Recommendations for Hepatitis B Prophylaxis Following Percutaneous or Permucosal Exposure<sup>12</sup>**

Source	Exposed Person	
	Unvaccinated	Vaccinated
HBsAg-positive	1. Hepatitis B Immune Globulin (Human) X 1 immediately* 2. Initiate HB vaccine series†	1. Test exposed person for anti-HBs 2. If inadequate antibody‡, Hepatitis B Immune Globulin (Human) X 1 immediately plus HB vaccine booster dose
Known Source - High Risk for HBsAg-positive	1. Initiate HB vaccine series 2. Test source for HBsAg. If positive, Hepatitis B Immune Globulin (Human) X 1	1. Test source for HBsAg only if exposed is vaccine nonresponder; if source is HBsAg-positive, give Hepatitis B Immune Globulin (Human) X 1 immediately plus HB vaccine booster dose
Known Source - Low Risk for HBsAg-positive	Initiate HB vaccine series	Nothing required
Unknown Source	Initiate HB vaccine series	Nothing required

230 \* Hepatitis B Immune Globulin (Human) dose of 0.06 mL/kg IM.  
231 †See manufacturers' recommendation for appropriate dose.  
232 ‡Less than 10 mIU/mL anti-HBs by radioimmunoassay, negative by enzyme immunoassay.  
233

- 234 • Prophylaxis of Infants Born to Mothers who are Positive for HBsAg with or without
- 235 HBeAg
- 236 Table 3 contains the recommended schedule of hepatitis B prophylaxis for infants
- 237 born to mothers that are either known to be positive for HBsAg or have not been
- 238 screened. Infants born to mothers known to be HBsAg-positive should receive 0.5
- 239 mL Hepatitis B Immune Globulin (Human) after physiologic stabilization of the infant
- 240 and preferably within 12 hours of birth. The Hepatitis B Vaccine series should be
- 241 initiated simultaneously, if not contraindicated, with the first dose of the vaccine
- 242 given concurrently with the Hepatitis B Immune Globulin (Human), but at a different

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243 site. Subsequent doses of the vaccine should be administered in accordance with  
 244 the recommendations of the manufacturer.

245  
 246 Women admitted for delivery, who were not screened for HBsAg during the prenatal  
 247 period, should be tested. While test results are pending, the newborn infant should  
 248 receive Hepatitis B Vaccine within 12 hours of birth (see manufacturers'  
 249 recommendations for dose). If the mother is later found to be HBsAg positive, the  
 250 infant should receive 0.5 mL Hepatitis B Immune Globulin (Human) as soon as  
 251 possible and within seven days of birth; however, the efficacy of Hepatitis B Immune  
 252 Globulin (Human) administered after 48 hours of age is not known.<sup>10,19</sup> Testing for  
 253 HBsAg and anti-HBs is recommended at 12-15 months of age. If HBsAg is not  
 254 detectable and anti-HBs is present, the child has been protected.<sup>12</sup>

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**Table 3 Recommended Schedule of Hepatitis B Immunoprophylaxis to Prevent Perinatal Transmission of Hepatitis B Virus Infection<sup>19</sup>**

Administer	Age of Infant	
	Infant Born to mother known to be HBsAg positive	Infant born to mother not screened for HBsAg
First Vaccination* Hepatitis B Immune Globulin (Human) <sup>†</sup>	Birth (within 12 hours) Birth (within 12 hours)	Birth (within 12 hours) If mother is found to be HBsAg positive, administer dose to infant as soon as possible, not later than 1 week after birth
Second Vaccination*	1 month	1-2 months
Third Vaccination*	6 months <sup>‡</sup>	6 months <sup>‡</sup>

261 \* See manufacturers' recommendations for appropriate dose.  
 262 †0.5 mL administered IM at a site different from that used for the vaccine.  
 263 ‡See ACIP recommendation.

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264 • Sexual Exposure to HBsAg-positive Persons

265 All susceptible persons whose sexual partners have acute hepatitis B infection  
266 should receive a single dose of Hepatitis B Immune Globulin (Human) (0.06 mL/kg)  
267 and should begin the Hepatitis B Vaccine series, if not contraindicated, within 14  
268 days of the last sexual contact or if sexual contact with the infected person will  
269 continue. Administering the vaccine with Hepatitis B Immune Globulin (Human)  
270 may improve the efficacy of post exposure treatment. The vaccine has the added  
271 advantage of conferring long-lasting protection.<sup>19</sup>

272

273 • Household Exposure to Persons with Acute HBV Infection

274 Prophylaxis of an infant less than 12 months of age with 0.5 mL Hepatitis B Immune  
275 Globulin (Human) and Hepatitis B Vaccine is indicated if the mother or primary  
276 caregiver has acute HBV infection. Prophylaxis of other household contacts of  
277 persons with acute HBV infection is not indicated unless they had an identifiable  
278 blood exposure to the index patient, such as by sharing toothbrushes or razors.  
279 Such exposures should be treated like sexual exposures. If the index patient  
280 becomes an HBV carrier, all household contacts should receive Hepatitis B  
281 Vaccine.<sup>19</sup>

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### 283 HOW SUPPLIED

284 Nabi-HB™, Hepatitis B Immune Globulin (Human), is supplied as:

285

286 NDC Number

Contents

287 59730-4402-1

a carton containing a 1.0 mL single dose vial (>312 IU) and

288

package insert

289 59730-4403-1

a carton containing a 5.0 mL single dose vial (>1560 IU) and

290

package insert

291

### 292 STORAGE

293 Refrigerate between 2 to 8 °C (36 to 46 °F). Do not freeze. Do not use after expiration

294 date. Use within 6 hours after the vial has been entered.

295

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374 Manufactured by:

375 Nabi®

376 Boca Raton, FL 33487

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378 Part No. 07.0210.00

379 March, 1999

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