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**INFORMATION FOR THE PATIENT
3 ML DISPOSABLE INSULIN DELIVERY DEVICE**

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**HUMULIN[®] N Pen
NPH
HUMAN INSULIN
(rDNA ORIGIN) ISOPHANE SUSPENSION
100 UNITS PER ML (U-100)**

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WARNINGS

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THIS LILLY HUMAN INSULIN PRODUCT DIFFERS FROM ANIMAL-SOURCE INSULINS BECAUSE IT IS STRUCTURALLY IDENTICAL TO THE INSULIN PRODUCED BY YOUR BODY'S PANCREAS AND BECAUSE OF ITS UNIQUE MANUFACTURING PROCESS.

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ANY CHANGE OF INSULIN SHOULD BE MADE CAUTIOUSLY AND ONLY UNDER MEDICAL SUPERVISION. CHANGES IN STRENGTH, MANUFACTURER, TYPE (E.G., REGULAR, NPH, LENTE, ETC), SPECIES (BEEF, PORK, BEEF-PORK, HUMAN), OR METHOD OF MANUFACTURE (rDNA VERSUS ANIMAL-SOURCE INSULIN) MAY RESULT IN THE NEED FOR A CHANGE IN DOSAGE.

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SOME PATIENTS TAKING HUMULIN[®] (HUMAN INSULIN, rDNA ORIGIN) MAY REQUIRE A CHANGE IN DOSAGE FROM THAT USED WITH ANIMAL-SOURCE INSULINS. IF AN ADJUSTMENT IS NEEDED, IT MAY OCCUR WITH THE FIRST DOSE OR DURING THE FIRST SEVERAL WEEKS OR MONTHS.

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TO OBTAIN AN ACCURATE DOSE, CAREFULLY READ AND FOLLOW THE "DISPOSABLE INSULIN DELIVERY DEVICE USER MANUAL" AND THIS "INFORMATION FOR THE PATIENT" INSERT BEFORE USING THIS PRODUCT.

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BEFORE EACH INJECTION, YOU SHOULD PRIME THE PEN, A NECESSARY STEP TO MAKE SURE THE PEN IS READY TO DOSE. PRIMING THE PEN IS IMPORTANT TO CONFIRM THAT INSULIN COMES OUT WHEN YOU PUSH THE INJECTION BUTTON AND TO REMOVE AIR THAT MAY COLLECT IN THE INSULIN CARTRIDGE DURING NORMAL USE. IF YOU DO NOT PRIME, YOU MAY RECEIVE TOO MUCH OR TOO LITTLE INSULIN (*see also* INSTRUCTIONS FOR INSULIN PEN USE section).

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DIABETES

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Insulin is a hormone produced by the pancreas, a large gland that lies near the stomach. This hormone is necessary for the body's correct use of food, especially sugar. Diabetes occurs when the pancreas does not make enough insulin to meet your body's needs.

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To control your diabetes, your doctor has prescribed injections of insulin products to keep your blood glucose at a near-normal level. You have been instructed to test your blood and/or your urine regularly for glucose. Studies have shown that some chronic complications of diabetes such as eye disease, kidney disease, and nerve disease can be significantly reduced if the blood sugar is maintained as close to normal as possible. The American Diabetes Association recommends that if your pre-meal glucose levels are consistently above 130 mg/dL or your hemoglobin A1c (HbA1c) is more than 7%, consult your doctor. A change in your diabetes

47 therapy may be needed. If your blood tests consistently show below-normal glucose levels, you
 48 should also let your doctor know. Proper control of your diabetes requires close and constant
 49 cooperation with your doctor. Despite diabetes, you can lead an active and healthy life if you eat
 50 a balanced diet, exercise regularly, and take your insulin injections as prescribed.

51 Always keep an extra supply of insulin as well as a spare syringe and needle on hand. Always
 52 wear diabetic identification so that appropriate treatment can be given if complications occur
 53 away from home.

54 NPH HUMAN INSULIN

55 Description

56 Humulin is synthesized in a non-disease-producing special laboratory strain of *Escherichia*
 57 *coli* bacteria that has been genetically altered by the addition of the human gene for insulin
 58 production. Humulin[®] N (human insulin [rDNA origin] isophane suspension) is a crystalline
 59 suspension of human insulin with protamine and zinc providing an intermediate-acting insulin
 60 with a slower onset of action and a longer duration of activity (up to 24 hours) than that of
 61 regular insulin. The time course of action of any insulin may vary considerably in different
 62 individuals or at different times in the same individual. As with all insulin preparations, the
 63 duration of action of Humulin N is dependent on dose, site of injection, blood supply,
 64 temperature, and physical activity. Humulin N is a sterile suspension and is for subcutaneous
 65 injection only. It should not be used intravenously or intramuscularly. The concentration of
 66 Humulin N in Humulin N Pen is 100 units/mL (U-100).

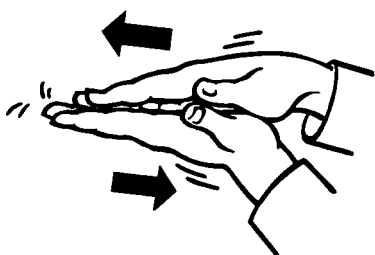
67 Identification

68 Humulin disposable insulin delivery devices, by Eli Lilly and Company, are available in
 69 2 formulations — NPH and 70/30.

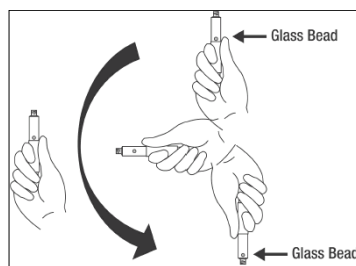
70 Your doctor has prescribed the type of insulin that he/she believes is best for you. **DO NOT**
 71 **USE ANY OTHER INSULIN EXCEPT ON HIS/HER ADVICE AND DIRECTION.**

72 The Humulin N Pen is available in boxes of 5 disposable insulin delivery devices (“insulin
 73 Pens”). The Humulin N Pen is not designed to allow any other insulin to be mixed in its
 74 cartridge, or for the cartridge to be removed.

75 Always examine the appearance of Humulin N suspension in the insulin Pen before
 76 administering a dose. A cartridge of Humulin N contains a small glass bead to assist in mixing.
 77 Humulin N Pen must be rolled between the palms 10 times and inverted 180° 10 times before
 78 each injection so that the contents are uniformly mixed (*see* Figures 1 and 2). Inspect the
 79 Humulin N suspension for uniform mixing and repeat the above steps as necessary.
 80



81 Figure 1.



82 Figure 2.

83 Humulin N should look uniformly cloudy or milky after mixing. Do not use if the insulin
 84 substance (the white material) remains visibly separated from the liquid after mixing. Do not use
 85 the Humulin N Pen if there are clumps in the insulin after mixing. Do not use the Humulin N Pen
 86 if solid white particles stick to the walls of the cartridge, giving it a frosted appearance.

87 Always check the appearance of the Humulin N suspension in the insulin Pen before using,
 88 and if you note anything unusual in the appearance of Humulin N suspension or notice your
 89 insulin requirements changing markedly, consult your doctor.

90 Never attempt to remove the cartridge from the Humulin N Pen. Inspect the cartridge through
 91 the clear cartridge holder.

92 **Storage**

93 **Not in-use (unopened):** Humulin N Pens not in-use should be stored in a refrigerator but not
 94 in the freezer. Do not use Humulin N Pen if it has been frozen.

95 **In-use:** Humulin N Pens in-use should **NOT** be refrigerated but should be kept at room
 96 temperature (below 86°F [30°C]) away from direct heat and light. Humulin N Pens in-use must
 97 be discarded **after 2 weeks**, even if they still contain Humulin N.

98 Do not use Humulin N Pens after the expiration date stamped on the label.

99 **INSTRUCTIONS FOR INSULIN PEN USE**

100 **It is important to read, understand, and follow the instructions in the “Disposable Insulin**
 101 **Delivery Device User Manual” before using. Failure to follow instructions may result in**
 102 **getting too much or too little insulin. The needle must be changed and the Pen must be**
 103 **primed before each injection to make sure the Pen is ready to dose. Performing these steps**
 104 **before each injection is important to confirm that insulin comes out when you push the**
 105 **injection button, and to remove air that may collect in the insulin cartridge during normal**
 106 **use.**

107 Every time you inject:

- 108 • Use a new needle.
- 109 • Prime to make sure the Pen is ready to dose.
- 110 • Make sure you got your full dose.

111 **NEVER SHARE INSULIN PENS, CARTRIDGES, OR NEEDLES.**

112 **PREPARING THE INSULIN PEN FOR INJECTION**

- 113 1. Always check the appearance of the Humulin N suspension in the insulin Pen before
 114 using.
- 115 2. Roll the Humulin N Pen between the palms 10 times (*see* Figure 1).
- 116 3. Holding the Humulin N Pen by one end, invert it 180° slowly 10 times to allow the small
 117 glass bead to travel the full length of the cartridge with each inversion (*see* Figure 2). The
 118 cartridge is contained in the clear cartridge holder of the Humulin N Pen.
- 119 4. Inspect the appearance of the Humulin N suspension to make sure the contents look
 120 uniformly cloudy or milky. If not, repeat the above steps until the contents are mixed. Do
 121 not use a Humulin N Pen if there are clumps in the insulin or if solid white particles stick
 122 to the walls of the cartridge.
- 123 5. Follow the instructions in the “Disposable Insulin Delivery Device User Manual” for
 124 these steps:
 - 125 • Preparing the Pen
 - 126 • Attaching the Needle. **Use a new needle for each injection.**
 - 127 • Priming the Pen. **The Pen must be primed before each injection to make sure the**
 128 **Pen is ready to dose.** Performing the priming step is important to confirm that insulin
 129 comes out when you push the injection button, and to remove air that may collect in
 130 the insulin cartridge during normal use.
 - 131 • Setting a Dose
 - 132 • Injecting a Dose. **To make sure you have received your full dose, you must push**
 133 **the injection button all the way down until you see a diamond (◆) or an arrow**
 134 **(→) in the center of the dose window.**
 - 135 • Following an Injection

136 **PREPARING FOR INJECTION**

- 137 1. Wash your hands.

- 138 2. To avoid tissue damage, choose a site for each injection that is at least 1/2 inch from the
139 previous injection site. The usual sites of injection are abdomen, thighs, and arms.
- 140 3. Cleanse the skin with alcohol where the injection is to be made.
- 141 4. With one hand, stabilize the skin by spreading it or pinching up a large area.
- 142 5. Inject the dose as instructed by your doctor. Hold the needle under the skin for at least 5
143 seconds after injecting.
- 144 6. After injecting a dose, pull the needle out and apply gentle pressure over the injection site
145 for several seconds. **Do not rub the area.**
- 146 7. Immediately after an injection, remove the needle from the Humulin N Pen. Doing so will
147 guard against contamination, leakage, reentry of air, and needle clogs. **Do not reuse**
148 **needles.** Place the used needle in a puncture-resistant disposable container and properly
149 dispose of it as directed by your Health Care Professional.

DOSAGE

150 Your doctor has told you which insulin to use, how much, and when and how often to inject it.
151 Because each patient's case of diabetes is different, this schedule has been individualized for you.

152 Your usual Humulin N dose may be affected by changes in your food, activity, or work
153 schedule. Carefully follow your doctor's instructions to allow for these changes. Other things that
154 may affect your Humulin N dose are:
155

156 **Illness**

157 Illness, especially with nausea and vomiting, may cause your insulin requirements to change.
158 Even if you are not eating, you will still require insulin. You and your doctor should establish a
159 sick day plan for you to use in case of illness. When you are sick, test your blood glucose/urine
160 glucose and ketones frequently and call your doctor as instructed.

161 **Pregnancy**

162 Good control of diabetes is especially important for you and your unborn baby. Pregnancy may
163 make managing your diabetes more difficult. If you are planning to have a baby, are pregnant, or
164 are nursing a baby, consult your doctor.

165 **Medication**

166 Insulin requirements may be increased if you are taking other drugs with hyperglycemic
167 activity, such as oral contraceptives, corticosteroids, or thyroid replacement therapy. Insulin
168 requirements may be reduced in the presence of drugs with blood-glucose-lowering activity,
169 such as oral antidiabetic agents, salicylates (for example, aspirin), sulfa antibiotics, alcohol, and
170 certain antidepressants. Always discuss any medications you are taking with your doctor.

171 **Exercise**

172 Exercise may lower your body's need for insulin during and for some time after the physical
173 activity. Exercise may also speed up the effect of a Humulin N dose, especially if the exercise
174 involves the area of injection site (for example, the leg should not be used for injection just prior
175 to running). Discuss with your doctor how you should adjust your regimen to accommodate
176 exercise.

177 **Travel**

178 Persons traveling across more than 2 time zones should consult their doctor concerning
179 adjustments in their insulin schedule.

COMMON PROBLEMS OF DIABETES

181 **Hypoglycemia (Low Blood Sugar)**

182 Hypoglycemia (too little glucose in the blood) is one of the most frequent adverse events
183 experienced by insulin users. It can be brought about by:

- 184 1. Taking too much insulin.
- 185 2. Missing or delaying meals.
- 186 3. Exercising or working more than usual.
- 187 4. An infection or illness (especially with diarrhea or vomiting).

- 188 5. A change in the body's need for insulin.
 189 6. Diseases of the adrenal, pituitary or thyroid gland, or progression of kidney or liver
 190 disease.
 191 7. Interactions with other drugs that lower blood glucose, such as oral antidiabetic agents,
 192 salicylates (for example, aspirin), sulfa antibiotics, and certain antidepressants.
 193 8. Consumption of alcoholic beverages.

194 Symptoms of mild to moderate hypoglycemia may occur suddenly and can include:

- | | |
|----------------------------------------------------|-----------------------|
| 195 • sweating | • drowsiness |
| 196 • dizziness | • sleep disturbances |
| 197 • palpitation | • anxiety |
| 198 • tremor | • blurred vision |
| 199 • hunger | • slurred speech |
| 200 • restlessness | • depressed mood |
| 201 • tingling in the hands, feet, lips, or tongue | • irritability |
| 202 • lightheadedness | • abnormal behavior |
| 203 • inability to concentrate | • unsteady movement |
| 204 • headache | • personality changes |

205 Signs of severe hypoglycemia can include:

- | | |
|-----------------------|------------|
| 206 • disorientation | • seizures |
| 207 • unconsciousness | • death |

208 Therefore, it is important that assistance be obtained immediately.

209 Early warning symptoms of hypoglycemia may be different or less pronounced under certain
 210 conditions, such as long duration of diabetes, diabetic nerve disease, medications such as beta-
 211 blockers, change in insulin preparations, or intensified control (3 or more insulin injections per
 212 day) of diabetes.

213 **A few patients who have experienced hypoglycemic reactions after transfer from animal-**
 214 **source insulin to human insulin have reported that the early warning symptoms of**
 215 **hypoglycemia were less pronounced or different from those experienced with their**
 216 **previous insulin.**

217 Without recognition of early warning symptoms, you may not be able to take steps to avoid
 218 more serious hypoglycemia. Be alert for all of the various types of symptoms that may indicate
 219 hypoglycemia. Patients who experience hypoglycemia without early warning symptoms should
 220 monitor their blood glucose frequently, especially prior to activities such as driving. If the blood
 221 glucose is below your normal fasting glucose, you should consider eating or drinking sugar-
 222 containing foods to treat your hypoglycemia.

223 Mild to moderate hypoglycemia may be treated by eating foods or drinks that contain sugar.
 224 Patients should always carry a quick source of sugar, such as candy mints or glucose tablets.
 225 More severe hypoglycemia may require the assistance of another person. Patients who are unable
 226 to take sugar orally or who are unconscious require an injection of glucagon or should be treated
 227 with intravenous administration of glucose at a medical facility.

228 You should learn to recognize your own symptoms of hypoglycemia. If you are uncertain
 229 about these symptoms, you should monitor your blood glucose frequently to help you learn to
 230 recognize the symptoms that you experience with hypoglycemia.

231 If you have frequent episodes of hypoglycemia or experience difficulty in recognizing the
 232 symptoms, you should consult your doctor to discuss possible changes in therapy, meal plans,
 233 and/or exercise programs to help you avoid hypoglycemia.

234 **Hyperglycemia and Diabetic Ketoacidosis (DKA)**

235 Hyperglycemia (too much glucose in the blood) may develop if your body has too little insulin.
 236 Hyperglycemia can be brought about by:

- 237 1. Omitting your insulin or taking less than the doctor has prescribed.

- 238 2. Eating significantly more than your meal plan suggests.
 239 3. Developing a fever, infection, or other significant stressful situation.

240 In patients with type 1 or insulin-dependent diabetes, prolonged hyperglycemia can result in
 241 DKA. The first symptoms of DKA usually come on gradually, over a period of hours or days,
 242 and include a drowsy feeling, flushed face, thirst, loss of appetite, and fruity odor on the breath.
 243 With DKA, urine tests show large amounts of glucose and ketones. Heavy breathing and a rapid
 244 pulse are more severe symptoms. If uncorrected, prolonged hyperglycemia or DKA can lead to
 245 nausea, vomiting, stomach pains, dehydration, loss of consciousness or death. Therefore, it is
 246 important that you obtain medical assistance immediately.

247 **Lipodystrophy**

248 Rarely, administration of insulin subcutaneously can result in lipoatrophy (depression in the
 249 skin) or lipohypertrophy (enlargement or thickening of tissue). If you notice either of these
 250 conditions, consult your doctor. A change in your injection technique may help alleviate the
 251 problem.

252 **Allergy to Insulin**

253 **Local Allergy** — Patients occasionally experience redness, swelling, and itching at the site of
 254 injection of insulin. This condition, called local allergy, usually clears up in a few days to a few
 255 weeks. In some instances, this condition may be related to factors other than insulin, such as
 256 irritants in the skin cleansing agent or poor injection technique. If you have local reactions,
 257 contact your doctor.

258 **Systemic Allergy** — Less common, but potentially more serious, is generalized allergy to
 259 insulin, which may cause rash over the whole body, shortness of breath, wheezing, reduction in
 260 blood pressure, fast pulse, or sweating. Severe cases of generalized allergy may be life
 261 threatening. If you think you are having a generalized allergic reaction to insulin, notify a doctor
 262 immediately.

263 **ADDITIONAL INFORMATION**

264 Additional information about diabetes may be obtained from your diabetes educator.

265 **DIABETES FORECAST** is a magazine designed especially for people with diabetes and their
 266 families. It is available by subscription from the American Diabetes Association, P.O. Box 363,
 267 Mt. Morris, IL 61054-0363, 1-800-DIABETES (1-800-342-2383).

268 Another publication, **COUNTDOWN**, is available from the Juvenile Diabetes Research
 269 Foundation International (JDRFI), 120 Wall Street 19th Floor, New York, NY 10005,
 270 1-800-533-CURE (1-800-533-2873).

271 Additional information about Humulin and Humulin N Pens can be obtained by calling The
 272 Lilly Answers Center at 1-800-LillyRx (1-800-545-5979).

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275 2.0 PV 3682 AMP

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1 3.0 PV 3734 AMP

3 **Lilly**

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5 *Disposable Insulin Delivery Device*
6 **User Manual**
7

8
9 **Instructions for Use**

10 **Read and follow all of these instructions carefully. If you do not follow these instructions**
11 **completely, you may get too much or too little insulin.**

12
13 **Every time you inject:**

- 14 • **Use a new needle**
- 15 • **Prime to make sure the Pen is ready to dose**
- 16 • **Make sure you got your full dose (see page 18)**

17
18 **Also, read the “INFORMATION FOR THE PATIENT”**
19 **insert enclosed in your Pen box.**

20
21 **Pen Features**

- 22 • **A multiple dose, disposable insulin delivery device**
23 **(“insulin Pen”) containing 3 mL (300 units) of U-100**
24 **insulin**
- 25 • **Delivers up to 60 units per dose**
- 26 • **Doses can be dialed by single units**

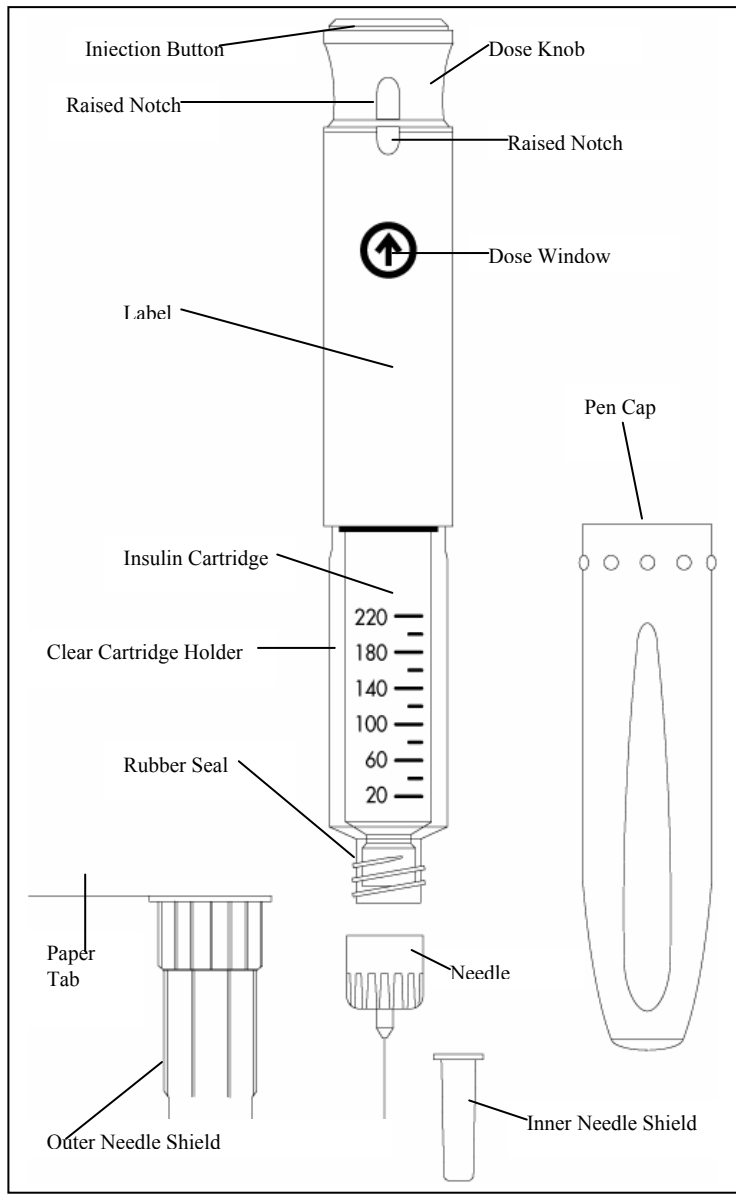


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Pen Parts



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Important Notes

- **Read and follow all of these instructions carefully. If you do not follow these instructions completely, you may get too much or too little insulin.**
- **Use a new needle for each injection.**
 - **Be sure a needle is completely attached to the Pen before priming, setting the dose and injecting your insulin.**
- **Prime every time.**
 - **The Pen must be primed before each injection to make sure the Pen is ready to dose.** Performing the priming step is important to confirm that insulin comes out when you push the injection button, and to remove air that may collect in the insulin cartridge during normal use. **See Section III. “Priming the Pen”, pages 10-13.**
 - **If you do not prime, you may get too much or too little insulin.**
- **Make sure you get your full dose.**
 - To make sure you get your full dose, you must push the injection button all the way down until you see a diamond (♦) or an arrow (→) in the center of the dose window. See “Following an Injection”, page 18.
- The numbers on the clear cartridge holder give an estimate of the amount of insulin remaining in the cartridge. Do not use these numbers for measuring an insulin dose.
- Do not share your Pen.

Important Notes (Continued)

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- Keep your Pen out of the reach of children.
- Pens that have not been used (unopened) should be stored in a refrigerator but not in a freezer. Do not use a Pen if it has been frozen. Refer to the “INFORMATION FOR THE PATIENT” insert for complete storage instructions.
- After a Pen is used for the first time, it should **NOT** be refrigerated but should be kept at room temperature [below 86°F (30°C)] and away from direct heat and light.
- An unrefrigerated Pen should be discarded according to the time specified in the “INFORMATION FOR THE PATIENT” insert, even if it still contains insulin.
- Never use a Pen after the expiration date stamped on the label.
- Do not store your Pen with the needle attached. Doing so may allow insulin to leak from the Pen and air bubbles to form in the cartridge. Additionally, with suspension (cloudy) insulins, crystals may clog the needle.
- Always carry an extra Pen in case yours is lost or damaged.
- Dispose of empty Pens as instructed by your Health Care Professional and without the needle attached.
- This Pen is not recommended for use by blind or visually impaired patients without the assistance of a person trained in the proper use of the product.
- The directions regarding needle handling are not intended to replace local, Health Care Professional, or institutional policies.
- **Any changes in insulin should be made cautiously and only under medical supervision.**

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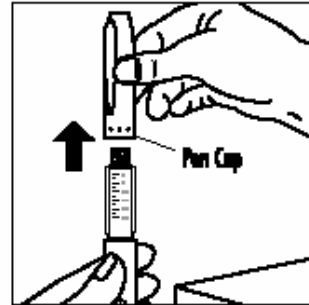
I. Preparing the Pen

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1. Before proceeding, refer to the “INFORMATION FOR THE PATIENT” insert for instructions on checking the appearance of your insulin.
2. Check the label on the Pen to be sure the Pen contains the type of insulin that has been prescribed for you.
3. Always wash your hands before preparing your Pen for use.

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4. Pull the Pen cap to remove.



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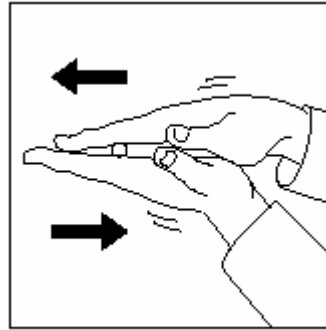
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I. Preparing the Pen (Continued)

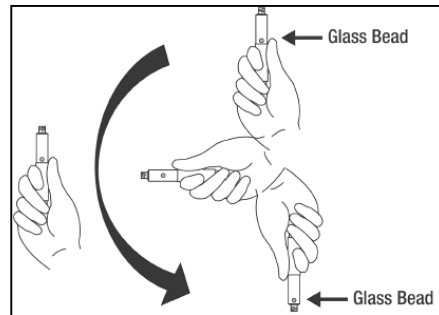
5. If your insulin is a suspension (cloudy):
- Roll the Pen back and forth 10 times then perform step b.



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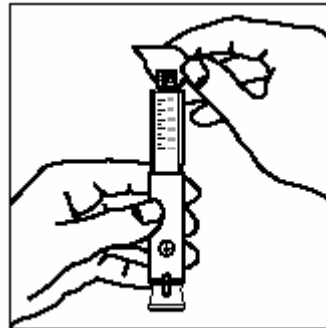
- Gently turn the Pen up and down 10 times until the insulin is evenly mixed.

Note: Suspension (cloudy) insulin cartridges contain a small glass bead to assist in mixing.



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6. Use an alcohol swab to wipe the rubber seal on the end of the Pen.



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II. Attaching the Needle

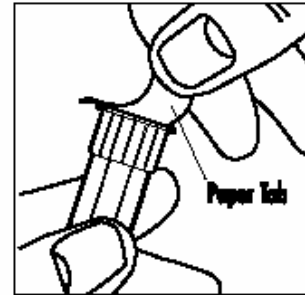
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This device is suitable for use with Becton Dickinson and Company's insulin pen needles.

1. Always use a new needle for each injection. Do not push injection button without a needle attached. Storing the Pen with the needle attached may allow insulin to leak from the Pen and air bubbles to form in the cartridge.

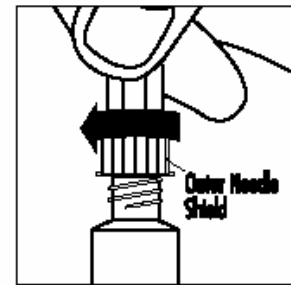
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2. Remove the paper tab from the outer needle shield.



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3. Attach the capped needle onto the end of the Pen by turning it clockwise until tight.

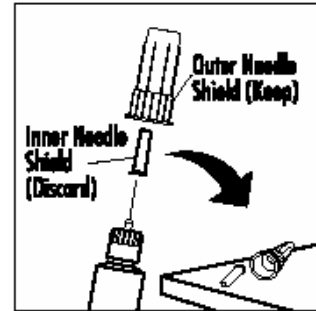


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II. Attaching the Needle (Continued)

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4. Hold the Pen with the needle pointing up and remove the **outer needle shield**. **Keep it to use during needle removal.**



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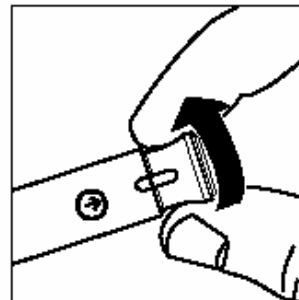
5. **Remove the inner needle shield and discard.**

III. Priming the Pen

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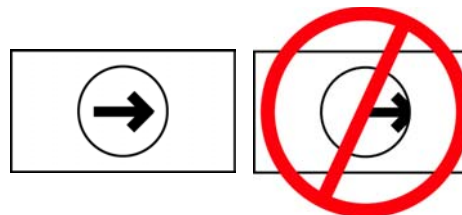
- **The Pen must be primed before each injection to make sure the Pen is ready to dose.**
Performing the priming step is important to confirm that insulin comes out when you push the injection button, and to remove air that may collect in the insulin cartridge during normal use.
- **If you do not prime, you may get too much or too little insulin.**
- **Always use a new needle for each injection.**

1. Make sure the arrow is in the center of the dose window as shown.



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2. If you do not see the arrow in the center of the dose window, push in the injection button fully and turn the dose knob until the arrow is seen in the center of the dose window.

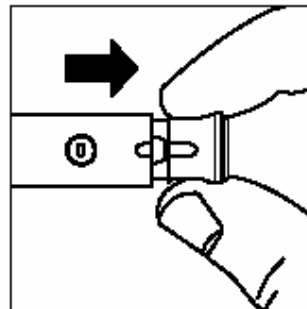


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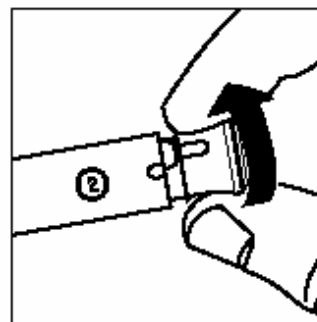
III. Priming the Pen (Continued)

3. With the arrow in the center of the dose window, pull the dose knob out in the direction of the arrow until a “0” is seen in the dose window.



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4. Turn the dose knob clockwise until the number “2” is seen in the dose window. If the number you have dialed is too high, simply turn the dose knob backward until the number “2” is seen in the dose window.



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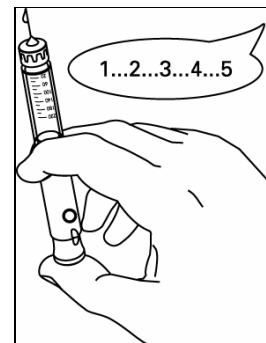
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III. Priming the Pen (Continued)

5. Hold your Pen with the needle pointing up. Tap the clear cartridge holder gently with your finger so any air bubbles collect near the top.

Using your thumb, if possible, push in the injection button completely. Keep pressing and continue to hold the injection button **firmly** while counting **slowly** to 5. You should see either a drop or a stream of insulin come out of the tip of the needle.

If insulin does not come out of the tip of the needle, repeat steps 1 through 5. If after several attempts insulin does not come out of the tip of the needle, change the needle and repeat the priming steps.



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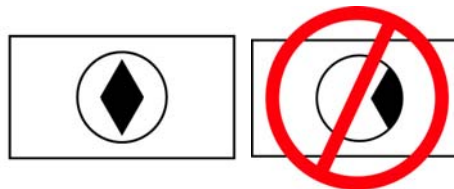
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III. Priming the Pen (Continued)

6. At the completion of the priming step, a diamond (◆) must be seen in the center of the dose window. If a diamond (◆) is not seen in the center of the dose window, continue pushing on the injection button until you see a diamond (◆) in the center of the dose window.



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Correct

Note: A small air bubble may remain in the cartridge after the completion of the priming step. If you have properly primed the Pen, this small air bubble will not affect your insulin dose.

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7. Now you are ready to set your dose. See next page.

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IV. Setting a Dose

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- **Always use a new needle for each injection. Storing the Pen with the needle attached may allow insulin to leak from the Pen and air bubbles to form in the cartridge.**

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- **Caution: Do not push in the injection button while setting your dose. Failure to follow these instructions carefully may result in getting too much or too little insulin. If you accidentally push the injection button while setting your dose, you must prime the Pen again before injecting your dose. See Section III. “Priming the Pen”, pages 10-13.**

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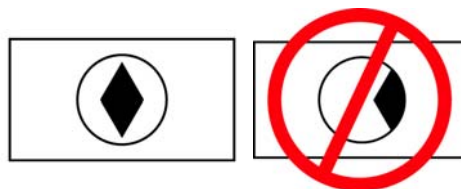
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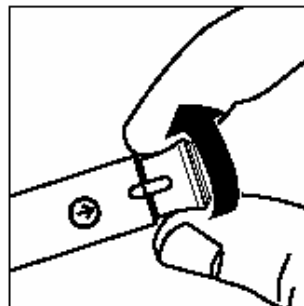
1. A diamond must be seen in the center of the dose window before setting your dose.

If you do not see a diamond in the center of the dose window, the Pen has not been primed correctly and you are not ready to set your dose. Before continuing, repeat the priming steps.



Correct

2. Turn the dose knob clockwise until the arrow (→) is seen in the center of the dose window and the notches on the Pen and dose knob are in line.



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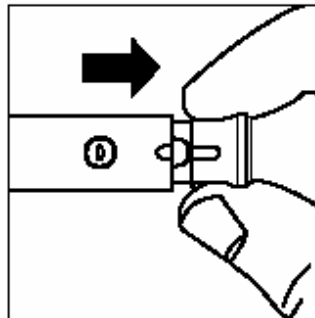
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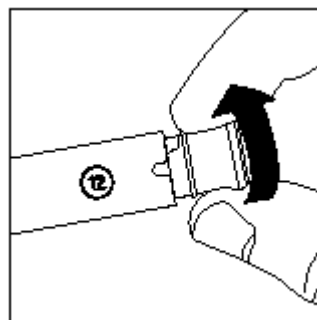
IV. Setting a Dose (Continued)

3. With the arrow (→) in the center of the dose window, pull the dose knob out in the direction of the arrow until a “0” is seen in the dose window. A dose cannot be dialed until the dose knob is pulled out.



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4. Turn the dose knob clockwise until your dose is seen in the dose window. If the dose you have dialed is too high, simply turn the dose knob backward until the correct dose is seen in the dose window.



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5. If you cannot dial your full dose, see the “Questions and Answers” section, Question 5, at the end of this manual.

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V. Injecting a Dose

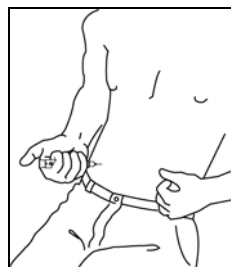
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- **Always use a new needle for each injection. Storing the Pen with the needle attached may allow insulin to leak from the Pen and air bubbles to form in the cartridge.**
- **Caution: Do not attempt to change the dose after you begin to push in the injection button. Failure to follow these instructions carefully may result in getting too much or too little insulin.**
- **The effort needed to push in the injection button may increase while you are injecting your insulin dose. If you cannot completely push in the injection button, refer to the “Questions and Answers” section, Question 7, at the end of this manual.**
- Do not inject a dose unless the Pen is primed, just before injection, or you may get too much or too little insulin.
- If you have set a dose and pushed in the injection button without a needle attached or if no insulin comes out of the needle, see the “Questions and Answers” section, Questions 1 and 2.

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V. Injecting a Dose (Continued)

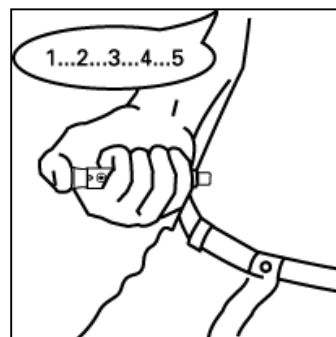
1. Wash hands. Prepare the skin and use the injection technique recommended by your Health Care Professional.
2. Insert the needle into your skin. Inject the insulin by using your thumb, if possible, to push in the injection button completely.



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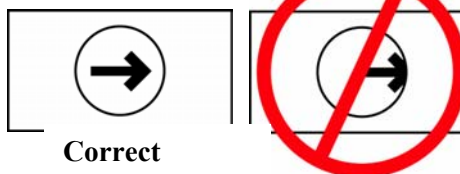
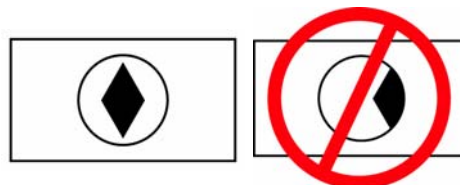
3. Keep pressing and continue to hold the injection button **firmly** while counting **slowly** to 5.

After counting to 5, pull the needle out and apply gentle pressure over the injection site for several seconds. **Do not rub the area.**



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4. When the injection is done, a diamond (◆) or arrow (→) must be seen in the center of the dose window. This means your full dose has been delivered. **If you do not see the diamond or arrow in the center of the dose window, you did not get your full dose. Contact your Health**



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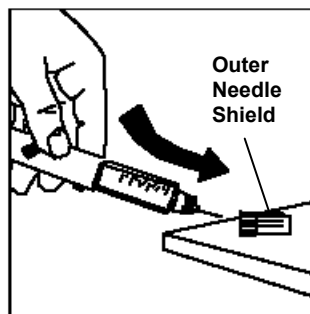
VI. Following an Injection

1. Make sure you got your full dose by checking that the injection button has been completely pushed in and you can see a diamond (◆) or arrow (→) in the center of the dose window. If you do not see the diamond (◆) or arrow (→) in the center of the dose window, you have not received your full dose. Contact your Health Care Professional for additional instructions.



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2. Carefully replace the **outer needle shield** as instructed by your Health Care Professional.

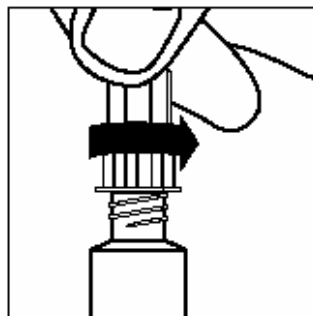


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VI. Following an Injection (Continued)

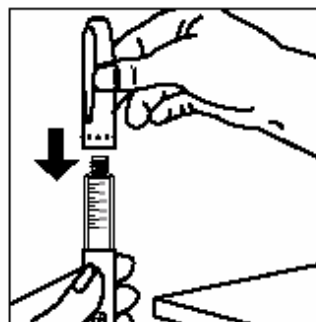
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3. Remove the capped needle by turning it counterclockwise. Place the used needle in a puncture-resistant disposable container and properly throw it away as directed by your Health Care Professional.



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4. Replace the cap on the Pen.



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5. The Pen that you are using should **NOT** be refrigerated but should be kept at room temperature below 86°F (30°C) and away from direct heat and light. It should be discarded according to the time specified in the “INFORMATION FOR THE PATIENT” insert, even if it still contains insulin.

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Do not store or dispose of the Pen with a needle attached. Storing the Pen with the needle attached may allow insulin to leak from the Pen and air bubbles to form in the cartridge.

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Questions and Answers

Problem	Action
1. Dose dialed and injection button pushed in without a needle attached.	To obtain an accurate dose you must: 1) Attach a new needle. 2) Push in the injection button completely (even if a "0" is seen in the window) until a diamond (◆) or arrow (→) is seen in the center of the dose window. 3) Prime the Pen.
2. Insulin does not come out of the needle.	To obtain an accurate dose you must: 1) Attach a new needle. 2) Push in the injection button completely (even if a "0" is seen in the window) until a diamond (◆) or arrow (→) is seen in the center of the dose window. 3) Prime the Pen. See Section III. "Priming the Pen", pages 10-13.

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Questions and Answers (Continued)

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Problem	Action
3. Wrong dose (too high or too low) dialed.	If you have not pushed in the injection button, simply turn the dose knob backward or forward to correct the dose.
4. Not sure how much insulin remains in the cartridge.	Hold the Pen with the needle end pointing down. The scale (20 units between marks) on the clear cartridge holder shows an estimate of the number of units remaining. These numbers should not be used for measuring an insulin dose.

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**Questions and Answers
(Continued)**

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Problem	Action
5. Full dose cannot be dialed.	The Pen will not allow you to dial a dose greater than the number of insulin units remaining in the cartridge. For example, if you need 31 units and only 25 units remain in the Pen, you will not be able to dial past 25. Do not attempt to dial past this point. (The insulin that remains is unusable and not part of the 300 units.) If a partial dose remains in the Pen you may either: 1) Give the partial dose and then give the remaining dose using a new Pen, or 2) Give the full dose with a new Pen.
6. A small amount of insulin remains in the cartridge but a dose cannot be dialed.	The Pen design prevents the cartridge from being completely emptied. The Pen has delivered 300 units of usable insulin.

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Questions and Answers (Continued)

Problem	Action
7. Cannot completely push in the injection button when priming the Pen or injecting a dose.	1) Needle is not attached or is clogged. <ol style="list-style-type: none"> a. Attach a new needle. b. Push in the injection button completely (even if a “0” is seen in the window) until a diamond (◆) or arrow (→) is seen in the center of the dose window. c. Prime the Pen. 2) If you are sure insulin is coming out of the needle, push in the injection button more slowly to reduce the effort needed and maintain a constant pressure until the injection button is completely pushed in.

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**For additional information call,
1-800-LillyRx (1-800-545-5979)**

Literature revised XX 2004

Eli Lilly and Company, Indianapolis, IN 46285, USA

3.0 PV 3734 AMP

PRINTED IN USA

5 x 3 mL disposable insulin delivery devices

MDC 0002-8730-59
HP 8730
100 Units per mL



Humulin® N Pen

NPH
human insulin
(rDNA origin)
isophane suspension
disposable insulin delivery device

Important
Please read updated User Manual
Every time you inject:
✓ Use a new needle
✓ Prime to make sure the Pen is ready to dose
✓ Prime to make sure you got your full dose

U-100



This device is suitable for use with Becton Dickinson and Company's insulin pen needles (needles not included)

5 x 3 mL disposable insulin delivery devices
HP 8730

3 mL

100 Units per mL

Humulin® N Pen

NPH
human insulin
(rDNA origin)
isophane suspension

HP 8730

U-100

disposable insulin delivery device

A1.0 NL 2493 AMS

A1.0 NL 2493 AMS
A1.0 NL 2493 AMS

HP 8730
U-100

disposable insulin delivery device
For information call 1-800-545-5979

1"

If the seal is broken before first use, contact pharmacist

Keep in a cold place. Avoid freezing.

Warning: Any change of insulin should be made cautiously and only under medical supervision. See enclosed insert.

For subcutaneous use.

As with any drug, if you are pregnant or nursing a baby, seek professional advice when using this product.

**Shake Carefully Before Using,
See Enclosed Insert for Proper Technique.**

Contains Metacresol 0.16% and Phenol 0.065% added during manufacture as preservatives.



Eli Lilly and Company
Indianapolis, IN 46285, USA
1-800-545-5979

**IMPORTANT-SEE WARNINGS ON
ENCLOSED INSERT**



3 0002-8730-59 1

If the seal is broken before first use, contact pharmacist

3 mL
NPH
human insulin
(rDNA origin)
isophane suspension
Humulin® N Pen
Lilly

5 x 3 mL disposable insulin delivery devices
100 Units per mL
HP 8730
U-100
disposable insulin delivery device

C-1004