

Did You Know?

Insulin Expiration Dates: Update

October 2022

All insulins should be stored in the refrigerator until opening and protected from light. Once opened or removed from the refrigerator for storage in the medication cart, the insulin should be dated as it will expire in a specified time per manufacturer.

PENS

Insulin Name	Expiration Upon Opening or Removing from Refrigerator
Insulin Glulisine (Apidra Solostar)	28 days
Insulin Lispro (Humalog, Admelog, Lyumjev)	28 days
Insulin Lispro; Insulin Lispro Protamine (Humalog Mix 50/50 and 75/25)	10 days
Isophane Insulin (NPH) - Humulin N KwikPen	14 days
Regular Insulin (Humulin R KwikPen) U-500	28 days
Regular Insulin; Isophane NPH (Humulin 70/30 KwikPen)	10 days
Insulin Glargine U-100 (Lantus, Basaglar, Semglee)	28 days
Insulin Detemir (Levemir Flextouch)	42 days
Isophane Insulin (NPH) - Novolin N FlexPen	28 days
Regular Insulin (Novolin R FlexPen)	28 days
Regular Insulin; Isophane Insulin (NPH) (Novolin 70/30 FlexPen)	28 days
Insulin Aspart (Novolog FlexPen)	28 days
Insulin Aspart; Insulin Aspart Protamine (Novolog Mix 70/30 FlexPen)	14 days
Insulin Glargine U-300 (Toujeo Solostar)	56 days
Insulin Degludec (Tresiba Flextouch)	56 days

NOTE: With the exception of Tresiba, all pens should be stored at room temperature once opened.

DO NOT REFRIGERATE. Once Tresiba is opened, it may be stored in the refrigerator or at room temperature (below 86 degrees F [30 degrees C]).

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GLP-PENS

Name	Expiration Upon Opening or Removing from Refrigerator	Storage of Opened Pen Special Instructions
Lixisenatide (Adlyxin)	14 days	The pen should be protected from light and kept in its original packaging. Discard pen 14 days after its first use.
Exenatide (Byetta) multi-dose pen injector	30 days	After first use, the Byetta Pen injector can be kept at a temperature not to exceed 77 degrees F (or 25 degrees C). Protect from light.
Semaglutide (Ozempic)	56 days	The open pen can be stored for 56 days below 86 degrees F (30 degrees C) or in a refrigerator at 36 to 46 degrees F (2 to 8 degrees C).
Dulaglutide (Trulicity)	14 days	Single use pens. If needed, a single pen may be stored at room temperature not to exceed 86 degrees F (or 30 degrees C). Store unused, unopened pens in the refrigerator at 36 to 46 degrees F (2 to 8 degrees C). Protect from light; it is recommended that the pen be stored in the original carton.
Liraglutide (Victoza)	30 days	Store pens that are in use at 59 to 86 degrees F or in a refrigerator at 36 to 46 degrees F. If exposed to temperatures above 86 degrees F, throw the pen away.

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VIALS

Insulin Name	Expiration Upon Opening or Removing from Refrigerator	Storage of Opened Vial Special Instructions
Insulin Glulisine (Apidra)	28 days	May refrigerate or store at room temperature.
Insulin Lispro (Humalog, Admelog, Lyumjev)	28 days	May refrigerate or store at room temperature.
Insulin Lispro; Insulin Lispro Protamine (Humalog Mix 50/50 and 75/25)	28 days	May refrigerate or store at room temperature.
Isophane Insulin (NPH) Humulin N	31 days	May refrigerate or store at room temperature.
Regular Insulin (Humulin R) 100 units/mL	31 days	Store in a cool place (below 86 degrees F).
Regular Insulin (Humulin R) 500 units/mL	40 days	May refrigerate or store at room temperature.
Regular Insulin; Isophane NPH (Humulin 70/30)	31 days	May refrigerate or store at room temperature.
Insulin Glargine U-100 (Lantus)	28 days	May refrigerate or store at room temperature.
Insulin Detemir (Levemir)	42 days	May refrigerate or store at room temperature.
Isophane Insulin (NPH) Novolin N	42 days	May refrigerate or store at room temperature.
Regular Insulin (Novolin R)	42 days	Store in a cool place below 77 degrees F (25 degrees C); do not refrigerate.
Regular Insulin; Isophane Insulin (NPH) (Novolin 70/30)	42 days	Store at room temperature; do not refrigerate.
Insulin Aspart (Novolog)	28 days	May refrigerate or store at room temperature.
Insulin Aspart; Insulin Aspart Protamine (Novolog Mix 70/30)	28 days	May refrigerate or store at room temperature.
Insulin Degludec (Tresiba)	56 days	May refrigerate or store at room temperature.

References:

1. Clinical Pharmacology Home (clinicalkey.com)/monographs. Accessed 10/11/2022.

Editorial Note: This is an update from our May 2021 - Did You Know? Insulin Expiration Dates: An Update. This update includes some additional GLP-Pen treatments that were not on the market at that time. Previous edition can be accessed at: <https://hdrxsvcs.com/3CttlFN>