

## Abridged List of Medications with Shortened Expiration Dates

Once certain products are opened and in use, they must be used within a specific timeframe to avoid reduced stability, sterility and potentially reduced efficacy. Product-specific storage and expiration details can be found in the drug product's Package Insert (PI) under the "How Supplied/Storage & Handling" section. **A drug product's Beyond Use Date (BUD) is the manufacturer supplied expiration date OR the shortened date after opening (see BUD Notes below), whichever comes first.**

**These in-use medications should be labeled such that the "DATE OPENED" is noted, clearly visible and securely attached to a part of the package to not be discarded. This date is to be referenced when auditing to clear medications prior to expiration.**

This list is abridged to cover some common medications whose package inserts detail shortened expirations once in-use. Users should also be familiar with USP BUD standards that may dictate in-use BUDs for other medications (e.g., eye drops, ear drops, injectable MDVs, etc.).

Asthma   Allergy   COPD		
Generic Name	Brand Name	Beyond Use Date (BUD) Notes
Acetylcysteine	Mucomyst	Store unopened vials at room temperature; once opened, store under refrigeration and use within 96 hours. A color change may occur in opened vials (light purple) and does not affect the safety or efficacy.
Acclidinium	Tudorza	45 days after opening pouch, when device locks out, or when dose indicator displays 0.
Acclidinium/Formoterol	Duaklir Pressair	2 months after opening bag, when device locks out, or when dose indicator displays 0.
Arformoterol	Brovana solution	Prior to dispensing, store in protective foil pouch under refrigeration at 2°C to 8°C (36°F to 46°F). Protect from light and excessive heat. After dispensing, unopened foil pouches may be stored at 20°C to 25°C (68°F to 77°F) for up to 6 weeks. Only remove vial from foil pouch immediately before use.
Albuterol	ProAir RespiClick	13 months after opening foil pouch or when counter reads 0.
	Ventolin HFA	12 months after removal from foil pouch or when counter reads 0.
Albuterol/Budesonide	Airsupra	12 months after opening foil pouch or when dose indicator displays 0.
Albuterol/Ipratropium	Combivent Respimat	3 months after first actuation or when device locks out.
	Duoneb	Store in foil and away from heat and light. Unit-dose vials should remain stored in protective foil pouch at all times. Once removed from the foil pouch, the individual vials should be used within one week. Discard if the solution is not colorless.

Asthma   Allergy   COPD, Continued		
Generic Name	Brand Name	Beyond Use Date (BUD) Notes
<b>Budesonide</b>	Pulmicort Respules	When an envelope has been opened, the shelf life of the unused ampules is 2 weeks when protected. Return unused ampules to the aluminum foil envelope after opening, to protect them from light. Any opened ampule must be used promptly.
<b>Budesonide/ Formoterol</b>	Symbicort	3 months after removal from foil pouch or when counter reads 0.
	Breyna	3 months after removal from foil pouch.
<b>Fluticasone</b>	Flovent Diskus	<b>50mcg strength:</b> 6 weeks after removal from protective foil pouch or when counter reads 0. <b>100mcg and 250mcg strength:</b> 2 months after removal from foil pouch or when counter reads 0.
	ArmonAir Digihaler	30 days after removal from protective foil pouch or when counter reads 0.
	Arnuity Ellipta	6 weeks after removal from foil pouch or when counter reads 0.
<b>Fluticasone/ Salmeterol</b>	Advair Diskus	30 days after removal from protective foil pouch or when counter reads 0.
	AirDuo Digihaler	30 days after removal from foil pouch or when the counter reads 0.
	AirDuo Respimat	30 days after removal from foil pouch or when the counter reads 0.
	Wixela Inhub	30 days after removal from foil pouch or when the counter reads 0.
<b>Fluticasone/Vilanterol</b>	Breo Ellipta	6 weeks after removal from foil tray pouch or when counter reads 0.
<b>Fluticasone/Vilanterol/ Umeclidinium</b>	Trelegy Ellipta	6 weeks after removal from foil tray or when counter reads 0.
<b>Formoterol</b>	Foradil Aerolizer	Capsules should always be stored in the blister and only removed immediately before use, discard by the manufacturer's expiration date on product.
	Perforomist Inhalation Solution	Prior to dispensing, store in refrigerator at 2°C to 8°C (36°F to 46°F). After dispensing, store in refrigerator at 2°C to 8°C (36°F to 46°F) or room temperature at 20°C to 25°C (68°F to 77°F) for up to 3 months. Protect from light and heat. Unit-dose vials should always be stored in the foil pouch and only removed immediately before use.
<b>Glycopyrrolate</b>	Lonhala Magnair	Store vials in the protective foil pouch. After opening the foil pouch, unused unit-dose vials should be returned to, and stored in, the foil pouch. Once a foil pouch is opened, discard the vials if not unused within 7 days. An opened unit-dose vial should be used right away. Discard any unit-dose vial if the solution is not colorless.
<b>Glycopyrrolate/ Formoterol</b>	Bevespi Aerosphere	3 months after removal from foil pouch or when dose indicator reads 0.
<b>Glycopyrrolate/ Formoterol/Budesonide</b>	Breztri Aerosphere	3 months ( <b>120-inhalation cannister</b> ) or 3 weeks ( <b>28-inhalation cannister</b> ) after removal from foil pouch or when counter reads 0.
<b>Indacaterol</b>	Arcapta Neohaler	Remove capsule from blister immediately prior to use. Discard if not used immediately.
<b>Levalbuterol</b>	Xopenex Solution	2 weeks from when foil pouch is opened. Vials removed from the pouch, if not used immediately, should be protected from light and used within 1 week.
<b>Mometasone</b>	Asmanex Twisthaler	45 days after removal from foil pouch or when the counter reads 0.
<b>Olodaterol</b>	Striverdi Respimat	3 months after cartridge is inserted into inhaler or when device locking mechanism is engaged.

Asthma   Allergy   COPD, Continued		
Generic Name	Brand Name	Beyond Use Date (BUD) Notes
Salmeterol	Serevent Diskus	6 weeks after removal from foil pouch or when counter reads 0.
Tiotropium	Spiriva Respimat	3 months after first use or when device locking mechanism is engaged.
	Spiriva Handihaler	Only remove from foil immediately before use, once removed, the capsule should be used immediately; if capsule is not used immediately it should be discarded.
Tiotropium/Olodaterol	Stiolto Respimat	3 months after cartridge is inserted into inhaler or when locking mechanism is engaged.
Umeclidinium	Incruse Ellipta	6 weeks after opening the foil tray or when the counter reads 0.
Umeclidinium/ Vilanterol	Anoro Ellipta	6 weeks after opening the foil tray or when the counter reads 0.

Insulins			
	Generic Name	Brand Name	Beyond Use Date (BUD) Notes After Accessing Insulin for First Use
Rapid Acting (RA)	I. glulisine	Apidra	vial - 28 days/pen - 28 days
	I. lispro-aabc	Lyumjev	vial - 28 days/pen - 28 days
	I. aspart	Novolog	vial - 28 days/pen - 28 days
	I. lispro	Fiasp	vial - 28 days/pen - 28 days
Short Acting (SA)	I. Regular	Novolin-R	vial - 42 days/pen - 28 days
		Humulin-R	vial - 31 days
Intermed. Acting	I. NPH	Novolin-N	vial - 42 days/pen - 28 days
		Humulin-N	vial - 31 days/pen - 14 days
Long Acting	I. glargine	Lantus	vial - 28 days/pen - 28 days
		Toujeo	pen - 56 days
		Semglee	vial - 28 days/pen - 28 days
		Basaglar	pen - 28 days
	I. degludec	Tresiba	vial - 56 days/pen - 56 days
70/30 RA MIX	I. aspart protamine susp/I. aspart	Novolog 70/30	vial - 28 days/pen - 14 days
70/30 SA MIX	I. NPH/ I. Regular	Novolin 70/30	vial - 42 days/pen - 28 days
		Humulin 70/30	vial - 31 days/pen - 10 days
75/25 RA MIX	I. lispro protamine/ I. lispro	Humalog 75/25	vial - 28 days/pen - 10 days
50/50 RA MIX	I. lispro protamine/ I. lispro	Humalog 50/50	pen - 10 days
U-500 Strength	I. Regular	Humulin-R U-500	vial - 40 days/pen - 28 days

Please see the [PharMerica 2025 Insulin Comparison Chart](#) for further detailed information, such as pre-use and in-use.

Miscellaneous			
	Generic Name	Brand Name	Beyond Use Date (BUD) Notes After Accessing Insulin for First Use
Eye	Latanoprost	Xalatan	6 weeks (42 days) after opening or moving to room temp.
	Latanoprostene Bunod	Vyzulta	8 weeks (56 days) after opening or moving to room temp.
Nasal	Calcitonin Nasal Spray	Miacalcin Nasal Spray	30 doses OR 35 days at room temp (opened or unopened).
Solutions	Epoetin Alfa	Epogen (Multidose) Procrit (Multidose)	Store unused portions of Epogen/Procrit in multiple-dose vials at 36°F to 46°F (2°C to 8°C). Discard 21 days after initial entry.
	Furosemide Soln.	Lasix	Discard open bottle after 90 days.
	Lorazepam Soln.	Ativan Intensol	90 days after opening [REFRIGERATED].
Subcutaneous	Liraglutide	Victoza/Saxenda	30 days at controlled room temperature (15°C to 30°C) or in a refrigerator (2°C to 8°C). Keep the pen cap on when not in use and protect from excessive heat and sunlight.
	Semaglutide	Ozempic	56 days after opening at controlled room temperature (15°C to 30°C) or in a refrigerator (2°C to 8°C). Do not freeze, keep the pen cap on when not in use, and protect from excessive heat and sunlight.
		Wegovy	If needed, prior to cap removal, the single-use Wegovy pen can be kept from 8°C to 30°C up to 28 days.
Tests	Tuberculin Tests	Tubersol	30 days after opening [REFRIGERATED].
Bulk	Bulk PO Meds	I.e., Tylenol, Miralax, etc.	Store and discard per manufacturer instructions, unless more stringent Beyond Use Date is applied per adopted policy or local regulation.
Injectable MDV's	Generally, all Injectable Multi-Dose Vials (unless individual products' Pls state otherwise)		28 days after opening [REFRIGERATED].
DM Supplies	Glucose Control Solutions and Test Strips	I.e., Accu-Chek, FreeStyle, etc.	Most: 90 days after opening. CHECK BRAND and that particular manufacturer's recommendation.