

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.).

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.
Acridinium	Tudorza	45 days after opening pouch, when device locks out, or when dose indicator displays 0.
Acridinium/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	Respimat: 3 months after first actuation.
	Duoneb	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.
Budesonide	Pulmicort Respules	Respules: 2 weeks after removal from aluminum packaging.
Budesonide/Formoterol	Symbicort	3 months after removal from foil pouch.
Fluticasone	Flovent Diskus	Diskus - 50mcg strength: 6 weeks after removal from protective foil pouch; Diskus - 100mcg and 250mcg strength: 2 months after removal from foil pouch
	ArmonAir Digihaler	Digihaler: 30 days after removal from protective foil pouch.
	Arnuity Ellipta	Ellipta: 6 weeks after removal from foil pouch.

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Generic Name	Brand Name	Beyond Use Date (BUD) Notes
Fluticasone/Salmeterol	Advair Diskus	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.
Fluticasone/Vilanterol	Breo Ellipta	6 weeks after removal from foil tray.
Formoterol	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.
Glycopyrrolate	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.
Indacaterol	Arcapta Neohaler	Remove capsule from blister immediately prior to use.
Levalbuterol	Xopenex Solution	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.
Mometasone	Asmanex Twisthaler	Twisthaler: 45 days after removal from foil pouch or when the counter reads 0.
Olodaterol	Striverdi Respimat	3 months after cartridge is inserted into inhaler.
Salmeterol	Serevent Diskus	6 weeks after removal from foil pouch.
Tiotropium	Spiriva Respimat	Respimat: 3 months after first use.
	Spiriva Handihaler	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.

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

Please see the [PharMerica 2022 Insulin Comparison Chart](#) for further detailed information, such as pre-use and in-use storage temperature requirements, injection timing recommendations, and pen priming requirements.

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		Generic Name	Brand Name	Beyond Use Date (BUD) Notes
Miscellaneous	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	Miacalcin Nasal Spray	Calcitonin 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)		30 days after opening [REFRIGERATED] Note: <i>Influenza Vaccine MDVs</i> generally have a BUD of 28 days after first access. Package inserts for vaccines can be found at www.immunize.org/fda	
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	