

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 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 this 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.

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.
Aformoterol	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 or when counter reads 0.
Albuterol/Ipratropium	Combivent Respimat	Respimat: 3 months after first actuation.
	Duoneb	Duoneb: Store in foil and away from heat and light, discard after manufacturer's expiration on package.
Budesonide	Pulmicort Respules	Respules: 2 weeks after removal from aluminum packaging.
	Pulmicort Flexhaler	Flexhaler: 12 months or when counter reads 0.
Budesonide/Formoterol	Symbicort	3 months after removal from foil pouch.
Fluticasone	Flovent Diskus	Diskus - 50mcg strength: 6 weeks after removal from foil pouch; Diskus - 100mcg and 250mcg strength: 2 months after removal from foil pouch
	Flovent HFA	HFA: 12 months or when counter reads 0.
	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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Fluticasone/Salmeterol	Advair Diskus	Diskus: 30 days after removal from protective foil pouch or when counter reads 0.
	Advair HFA	HFA: 12 months or when 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.
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.
	Xopenex HFA	HFA: 12 months or when counter reads 0.
Mometasone	Asmanex Twisthaler	Twisthaler: 45 days after removal from foil pouch or when the counter reads 0.
	Asmanex HFA	HFA: 12 months or when counter reads 0.
Mometasone/Formoterol	Dulera	12 months or when 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.

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Insulins	Rapid Acting (RA)	Generic Name	Brand Name	Beyond Use Date (BUD) Notes
		I. glulisine	Apidra	28 days
		I. lispro-aabc	Lyumjev	vial - 28 days / pen - 28 days
		I. aspart	Novolog Fiasp	vial - 28 days / pen - 28 days vial - 28 days / pen - 28 days
		I. lispro	Admelog Humalog	vial - 28 days / pen - 28 days vial - 28 days / pen - 28 days
	Short Acting (SA)	I. Regular	Novolin-R Humulin-R	vials - 42 days / pen - 28 days 31 days
	Intermed. Acting (SA)	I. NPH	Novolin-N Humulin-N	vials - 42 days / pen - 28 days vials - 31 days / pen - 14 days
	Long Acting	I. glargine	Lantus Toujeo Semglee Basaglar	28 days 56 days 28 days 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 Humulin 70/30	vials - 42 days / pen - 28 days vials - 31 days / pen - 10 days	
70/25 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 2020 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
		Generally, all other eye drops/ointments (unless individual products' Pls state otherwise)		60 days after opening
	Nasal	Miacalcin Nasal Spray	Calcitonin Nasal Spray	30 doses OR 35 days at room temp (opened or unopened)
	Solutions	Morphine Sulfate Soln.	Roxanol	1 year after opening
		Hydromorphone Soln.	Dilaudid	1 year after opening
		Oxycodone Soln.	Roxicodone	1 year after opening
		Furosemide Soln.	Lasix	60 days after opening
		Lorazepam Soln.	Ativan	90 days after opening [REFRIGERATED]
	Sublingual	Nitroglycerin SL Tabs	Nitrostat	1 year after opening
Tests	Tuberculin Tests	Tubersol	30 days after opening [REFRIGERATED]	
Bulk	Bulk PO Meds	I.e., Tylenol, Miralax, etc.	Generally, 1 year after opening (Best Practice: highlight manufacturer's expiration and annotate "Date Opened" on container). Refer to your facility policy for locale specific guidance.	
Injectable MDV's	Generally, all Injectable Multi-Dose Vials (unless individual products' Pls state otherwise)		30 days after opening [REFRIGERATED] Note: Influenza Vaccine MDVs 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	