

RESPIRATORY MEDICATIONS FOR INHALATION AVAILABLE IN CANADA PRODUCTS & DEVICES

Table 1: Inhalers – Availability, Device Type and Dose Counter Features

Drug Name Generic (Brand Name)	Availability Dose per Inhalation; # of doses/container	Device type	Dose Counter Features
Bronchodilators			
Short-acting beta₂-agonist (SABA)			
Salbutamol, Ventolin Diskus®	200 mcg; 60	Diskus	Dose counter counts down from 60 to 1. The last 5 numbers are in red.
Ventolin HFA®	100 mcg; 200	MDI	No dose counter
Apo-Salvent CFC Free®	100 mcg; 200	MDI	No dose counter
Novo-Salbutamol HFA®	100 mcg; 200	MDI	No dose counter
Salbutamol HFA (Sanis)	100 mcg; 200	MDI	No dose counter
Salbutamol (in ethanol), Airomir®	100 mcg; 200 (or 100 hospital)	MDI	No dose counter
Terbutaline, Bricanyl®	500 mcg; 100	Turbuhaler	A red mark shows in the window underneath the mouthpiece when 20 doses are left. When the red mark reaches the bottom of the window, the device is empty.
Long-acting beta₂-agonist (LABA) 12-hour acting			
Formoterol, Foradil®	12 mcg; 60	Aerolizer	No dose counter (capsule inserted into the Aerolizer device)
Formoterol, Oxeze®	6 or 12 mcg; 60	Turbuhaler	A red mark shows in the window underneath the mouthpiece when 20 doses are left. When the red mark reaches the bottom of the window.
Salmeterol, Serevent Diskus®	50 mcg; 60	Diskus	Dose counter counts down from 60 to 1. The last 5 numbers are in red.
Long acting beta₂-agonist (LABA) 24-hour acting			
Indacaterol, Onbrez®	75 mcg; 10 and 30	Breezhaler	No dose counter (capsule inserted into the Breezhaler device)
Short-acting muscarinic antagonist (SAMA) (anticholinergic)			
Ipratropium bromide, Atrovent HFA®	20 mcg; 200	MDI	No dose counter
Combination Products (SAMA/SABA)			
Ipratropium/salbutamol, Combivent® Respimat®	20/100 mcg 60 and 120	Respimat SMI	Pointer indicates approximate amount remaining
Long-acting muscarinic antagonist (LAMA) (anticholinergic)			
Aclidinium bromide, Tudorza® Genuair®	400 mcg; 30 and 60	Genuair	Dose counter counts down by 10 from 60 to zero. A red strip band appears in the dose counter window indicating time to obtain a new inhaler. When preparing the last dose, the actuation button will not return to its upper position.
Glycopyrronium bromide, Seebri® Breezhaler®	50 mcg; 10 and 30	Breezhaler	No dose counter (capsule inserted into the Breezhaler device)
Tiotropium bromide, Spiriva®	18 mcg; 10 and 30, 30 refill	Handihaler	No dose counter (capsule inserted into the Handihaler device)
Tiotropium, Spiriva® Respimat®	2.5 mcg; 28 and 60	Respimat SMI	Pointer indicates approximate amount remaining

Drug Name Generic (Brand Name)	Availability Dose per Inhalation; # of doses/container	Device type	Dose Counter Features
Long-acting muscarinic antagonist (LAMA) (anticholinergic), continued			
Umeclidinium bromide, Incruse® Ellipta®	62.5 mcg; 7 and 30	Ellipta	Dose counter counts down by one; when fewer than 10 doses are left, half of the dose counter shows red (as a reminder to refill prescription). After you have inhaled the last dose, half of the dose counter shows red and the number 0 is displayed. Your inhaler is now empty. If you open the cover after this, the dose counter will change from half red to completely red. Discard when the dose counter reads "0", or 6 weeks after removal from foil tray, whichever comes first.
Combination products (LAMA/LABA)			
Acclidinum/formoterol, Duaklir Genuair®	LAMA/LABA 400/12 mcg; 60	Genuair	Dose counter counts down by 10 from 60 to zero. A red strip band appears in the dose counter window indicating time to obtain a new inhaler. When preparing the last dose, the actuation button will not return to its upper position.
Indacaterol/ glycopyrronium, Ultibro® Breezhaler®	LABA/LAMA 110/ 50 mcg; 6 and 30	Breezhaler	No dose counter (capsule inserted into the Breezhaler device)
Tiotropium/olodaterol, Inspiro® Respimat®	LAMA/LABA 2.5/2.5 mcg 28 and 60	Respimat SMI	Pointer indicates approximate amount remaining
Umeclidinium/vilanterol, Anoro® Ellipta®	LAMA/LABA 62.5/ 25 mcg; 7 and 30	Ellipta	See Ellipta instructions above
Inhaled corticosteroids (ICS)			
Beclomethasone, (in ethanol), Qvar®	50 or 100 mcg; 100 and 200	MDI	No dose counter
Budesonide, Pulmicort®	100, 200, or 400 mcg; 200	Turbuhaler	A red mark shows in the window underneath the mouthpiece when 20 doses are left. Discard when the red mark reaches the bottom of the window.
Ciclesonide (in ethanol), Alvesco®	100 or 200 mcg; 30 and 120	MDI	No dose counter
Fluticasone propionate, Flovent Diskus®	100, 250, or 500 mcg; 60	Diskus	Dose counter counts down from 60 to 1. The last 5 numbers are in red.
Fluticasone propionate, Aermony Respiclick®	55, 113, or 232 mcg 60	Respiclick	Dose counter counts down from 60 by 2, (ie, 60, 58). Numbers change to red from 20 downward. Discard inhaler when dose counter reaches zero. No priming. Do not use a spacer device.
Fluticasone propionate, Flovent HFA®	50, 125 or 250 mcg; 60 and 120	MDI	No dose counter
pms-Fluticasone propionate HFA®	125 or 250 mcg; 60 and 120	MDI	No dose counter
APO-Fluticasone propionate HFA®	250 mcg; 120	MDI	No dose counter
Fluticasone furoate, Arnuity® Ellipta®	100 or 200 mcg; 14 and 30	Ellipta	See Ellipta instructions above
Mometasone, Asmanex®	100, 200 or 400 mcg; 30 – 100 or 400 mcg 60 - 200 or 400 mcg	Twisthaler	Dose counter counts down by one, indicating number of doses remaining. When counter reaches 00, the cap will lock.

Drug Name Generic, Brand Name	Availability Dose per Inhalation; # of doses/container	Device type	Dose Counter Features
Combination products (ICS/LABA)			
Budesonide/formoterol, Symbicort®	100/6 or 200/6 mcg; 120 - 100/6 mcg 60 & 120 - 200/6 mcg	Turbuhaler	Counts down. Every 20 th dose is marked by a number and every 10 th dose by a dash. A 0 on a red background in the middle of the window indicates empty.
Fluticasone propionate /salmeterol, Advair Diskus®	100/50, 250/50, or 500/50 mcg; 28 and 60	Diskus	Dose counter counts down from 60 to 1. The last 5 numbers are in red.
Fluticasone propionate /salmeterol, Advair®	125/25 or 250/25 mcg; 120	MDI	Dose counter shows # puffs remaining
Fluticasone propionate/salmeterol, pms- Fluticasone/salmeterol DPI®	100/50, 250/50, 500/50 mcg; 60	Diskus device	Dose counter counts down by 1 from 60 to zero. The last 5 numbers are in red.
Fluticasone propionate/salmeterol, Wixela Inhub®	100/50, 250/50, 500/50 mcg; 60	Modified Diskus device	Dose counter counts down by one from 60 to zero. A red indicator appears when there are 9 doses or less remaining. The lever will not reach the end of the purple arrows when there are no doses remaining.
Fluticasone furoate/vilanterol, Breo® Ellipta®	100/25 or 200/25 mcg; 14 and 30	Ellipta	See Ellipta instructions above
Indacaterol/mometasone, Aectura® Breezhaler® (Listed as LABA/ICS)	150/80, 150/160, 150/320 mcg 30	Breezhaler	No dose counter (capsule inserted into the Breezhaler device)
Mometasone/formoterol, (in ethanol), Zenhale®	100/5 or 200/5 mcg; 60 and 120	MDI	Dose counter shows # puffs remaining
Combination products (ICS/LAMA/LABA)			
Budesonide/formoterol/ glycopyrronium, Breztri® Aerosphere®	182/5.8/8.2 mcg 28, 56 and 120	Aerosphere MDI	Dose counter shows # puffs remaining
Fluticasone furoate/umeclidinium/ vilanterol, Trelegy® Ellipta®	100/62.5/25 mcg; 200/62.5/25 mcg; 14 and 30	Ellipta	See Ellipta instructions above
Indacaterol/glycopyrronium/ mometasone, Energair® Breezhaler® (Listed as LABA/LAMA/ICS)	150/50/160 mcg 30	Breezhaler	No dose counter (capsule inserted into the Breezhaler device)

**Table 2: Metered Dose Inhalers (pressurized MDI, SMI):
Priming Instructions**

Drug Name Generic, Brand Name	Initial priming* (releasing spray into the air)	Re-priming* (releasing spray into the air)
Bronchodilators		
Short-acting beta₂-agonist (SABA)		
Salbutamol, Apo-Salvent CFC Free®	4 sprays	4 sprays if not used for 2 weeks
Novo-Salbutamol HFA®	4 sprays	4 sprays if not used for 4 weeks
Salbutamol HFA (Sanis)	4 sprays	4 sprays if not used for more than 5 days
Ventolin HFA®	4 sprays	4 sprays if not used for 4 weeks; 1 puff after cleaning
Salbutamol (in ethanol) Airomir®	4 sprays	4 sprays if not used for 14 days or more
Short-acting muscarinic antagonist (SAMA) (anticholinergic)		
Ipratropium bromide, Atrovent HFA®	2 sprays	1 spray if not used for more than 3 days
Combination Products (SAMA/SABA)		
Ipratropium/salbutamol, Combivent® Respimat®	Until cloud appears + 3 more times	1 spray if not used for more than 3 days. Full priming if not used for more than 21 days
Long-acting muscarinic antagonist (LAMA) 24-hour acting (anticholinergic)		
Tiotropium, Spiriva® Respimat®	Until cloud appears + 3 more times	1 spray if not used for more than 7 days. Full priming if not used for more than 21 days
Combination Products (LAMA/LABA)		
Tiotropium/olodaterol, Inspiro® Respimat®	Until cloud appears + 3 more times	1 spray if not used for more than 7 days. Full priming if not used for more than 21 days
Inhaled corticosteroids (ICS)		
Beclomethasone (in ethanol), Qvar®	4 sprays	4 sprays if not used for 14 days or more
Ciclesonide (in ethanol), Alvesco®	3 sprays	3 sprays if not used for 7 days or more
Fluticasone propionate, Flovent HFA®	1 spray	1 spray if not used for 7 days or more
pms-Fluticasone propionate HFA®	2 sprays	2 sprays if not used for 7 days or more
APO-Fluticasone propionate HFA®	2 sprays	2 sprays if not used for 7 days or more.
Combination products (ICS/LABA)		
Fluticasone propionate /salmeterol, Advair®	1 spray; repeat until dose counter reads 120	2 sprays if not used for 7 days or more
Mometasone/formoterol, (in ethanol), Zenhale®	4 sprays; dose counter should read 120	4 sprays if not used for 5 days or more
Combination products (ICS/LABA/LAMA)		
Budesonide/formoterol/ glycopyrronium, Breztri Aerosphere®	4 puffs, shake the inhaler well before each priming puff.	Re-prime the inhaler after cleaning the actuator, if not used for more than 7 days, or if dropped. Shake the inhaler well and press down on the centre of the dose indicator 2 times to release a total of 2 puffs into the air away from your face.

***Priming a Pressurized MDI:**

Initial priming is recommended before using the inhaler for the first time and re-priming is recommended if the inhaler has not been used for a period of time (as specified in each product's instructions for use). When priming, shake the inhaler and direct the recommended number of test sprays into the air, away from the face.

Shaking a Pressurized MDI before Use:

Shake all pressurized MDIs before use except QVAR® and Respimat® products. QVAR® is formulated as a solution in HFA propellant. Respimat® products are formulated as propellant-free solutions.

Definition of Terms

MDI= pressurized metered dose inhaler eg., devices using an HFA propellant

DPI= dry powder inhaler, eg., Diskus, Ellipta, Turbuhaler, Genuair, Handihaler, Breezhaler, Inhub, Respiclick, Twisthaler, Aerolizer

SMI= soft mist inhaler eg., Respimat

Aerosphere= a brand of pressurized metered dose inhaler

DPIs Approved by Health Canada but not marketed

pms-Fluticasone propionate (DPI) 100, 250, 500 mcg/ inhalation. Supplied: *60 in a Diskus device*

Fluticasone propionate/salmeterol (DPI) Respiclick, Arbesda Respiclick® 55/14, 113/14, 232/14 mcg/inh
Supplied: *60*

MDIs Approved by Health Canada but not marketed

pms-Fluticasone propionate HFA 50 mcg/puff. Supplied: HFA 50 mcg (120)

APO-Fluticasone 50, 125 mcg HFA. Supplied: 120

Zenhale 50/5 strength MDI (HFA) Supplied: 60 and 120

Olodaterol 2.5 mcg/actuation. (Striverdi Respimat). Supplied 60 actuations

Formoterol fumarate dihydrate 5.8/ glycopyrronium 8.2 mcg/actuation HFA. Supplied: 120 actuations,
AstraZeneca