

# COVID-19 mRNA Vaccines Comparison Chart for Health Care Workers

<Version 3.0 – March 28, 2023>







	Pfizer-BioNTech						Moderna			
	COMIRNATY® Monovalent Vaccine	COMIRNATY® Monovalent Vaccine	COMIRNATY® Bivalent (BA.4/5) Booster Vaccine	COMIRNATY® Monovalent Vaccine	COMIRNATY® Monovalent Vaccine	COMIRNATY® Bivalent (BA.4/5) Booster Vaccine	SPIKEVAX® Monovalent Vaccine	SPIKEVAX® Monovalent Vaccine	SPIKEVAX® Bivalent (BA.1) Booster Vaccine*	SPIKEVAX® Bivalent (BA.4/5) Booster Vaccine
Vial Image										
DIN	02530325	02522454	02533197	02509210	02527863	02531461	02527685	02510014	02530252	02532352
Vial Cap Colour	Maroon	Orange	Orange	Purple	Grey	Grey	Royal Blue	Red	Royal Blue	Royal Blue
Label Border Colour	Maroon	Orange	Orange	Purple	Grey	Grey	Purple	Light Blue	Green	Grey
Authorized Age Group	6 months to 4 years	5 to 11 years	5 to 11 years	12 years and older	12 years and older	12 years and older	6 months and older	6 years and older	6 years and older	18 years and older
Stability in ULT Freezer (-90°C to -60°C)	Up to 18 months from date of manufacture; Do not refreeze	Up to 18 months from date of manufacture; Do not refreeze	Up to 18 months from date of manufacture; Do not refreeze	Until expiry date; Do not refreeze	Up to 18 months from date of manufacture; Do not refreeze	Up to 18 months from date of manufacture; Do not refreeze	N/A	N/A	N/A	N/A
Stability in Freezer	N/A	N/A	N/A	-25°C to -15°C for up to 2 weeks; Do not refreeze	N/A	N/A	-50°C to -15°C until expiry date; Do not refreeze	-50°C to -15°C until expiry date; Do not refreeze	-50°C to -15°C until expiry date; Do not refreeze	-50°C to -15°C until expiry date; Do not refreeze
Stability in Refrigerator (2°C to 8°C)	Undiluted product up to 10 weeks prior to first use	Undiluted product up to 10 weeks prior to first use	Undiluted product up to 10 weeks prior to first use	Undiluted product up to 31 days prior to first use	Up to 10 weeks prior to first use	Up to 10 weeks prior to first use	Up to 30 days prior to first use	Up to 30 days prior to first use	Up to 30 days prior to first use	Up to 30 days prior to first use
Stability at Room Temperature (8°C to 25°C)	Up to 12 hours prior to dilution	Up to 12 hours prior to dilution	Up to 12 hours prior to dilution	Up to 2 hours prior to dilution	Up to 12 hours prior to first use	Up to 12 hours prior to first use	Up to 24 hours prior to first use	Up to 24 hours prior to first use	Up to 24 hours prior to first use	Up to 24 hours prior to first use
Thawing Prior to Administration	Thaw in fridge for 2 hours or at room temperature for 30 minutes	Thaw in fridge for 4 hours or at room temperature for 30 minutes	Thaw in fridge for 4 hours or at room temperature for 30 minutes	Thaw in fridge for 3 hours or at room temperature for 30 minutes	Thaw in fridge for 6 hours or at room temperature for 30 minutes	Thaw multi-dose vial in fridge for 6 hours or at room temperature for 30 minutes	Thaw in fridge for 2 hours and let stand at room temperature for 15 minutes, or thaw at room temperature for 45 minutes	Thaw in fridge for 2.5 hours and let stand at room temperature for 15 minutes, or thaw at room temperature for 1 hour	Thaw in fridge for 2 hours and let stand at room temperature for 15 minutes, or thaw at room temperature for 45 minutes	Thaw in fridge for 2 hours and let stand at room temperature for 15 minutes, or thaw at room temperature for 45 minutes
Dilution (Sterile 0.9% Sodium Chloride Injection, USP)	DILUTE thawed product with 2.2 mL	DILUTE thawed product with 1.3 mL	DILUTE thawed product with 1.3 mL	DILUTE thawed product with 1.8 mL	DO NOT DILUTE	DO NOT DILUTE	DO NOT DILUTE	DO NOT DILUTE	DO NOT DILUTE	DO NOT DILUTE




**CAUTION:** Please ensure correct product is used as the COMIRNATY® Monovalent vaccine and Bivalent vaccine vials, as well as the SPIKEVAX® Bivalent BA.1 and BA.4/5 vaccine vials have the same vial cap colour and concentration.

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	Pfizer-BioNTech						Moderna			
	COMIRNATY® Monovalent Vaccine	COMIRNATY® Monovalent Vaccine 	COMIRNATY® Bivalent (BA.4/5) Booster Vaccine 	COMIRNATY® Monovalent Vaccine	COMIRNATY® Monovalent Vaccine 	COMIRNATY® Bivalent (BA.4/5) Booster Vaccine 	SPIKEVAX® Monovalent Vaccine	SPIKEVAX® Monovalent Vaccine	SPIKEVAX® Bivalent (BA.1) Booster Vaccine* 	SPIKEVAX® Bivalent (BA.4/5) Booster Vaccine 
<b>Handling</b>	Invert gently 10 times during reconstitution; Do not shake	Invert gently 10 times during reconstitution; Do not shake	Invert gently 10 times during reconstitution; Do not shake	Invert gently 10 times during reconstitution; Do not shake	Invert gently 10 times prior to use; Do not shake	Invert gently 10 times prior to use; Do not shake	Swirl gently after thawing and between each withdrawal; Do not shake	Swirl gently after thawing and between each withdrawal; Do not shake	Swirl gently after thawing and between each withdrawal; Do not shake	Swirl gently after thawing and between each withdrawal; Do not shake
<b>Stability of Pre-Loaded Syringe</b>	Up to 24 hours at 2°C to 8°C, or up to 12 hours at 8°C to 25°C for a total cumulative of 24 hours post-dilution	Up to 24 hours at 2°C to 8°C, or up to 12 hours at 8°C to 25°C for a total cumulative of 24 hours post-dilution	Up to 12 hours at 2°C to 25°C	Up to 6 hours at 2°C to 25°C	Up to 12 hours at 2°C to 25°C	Up to 12 hours at 2°C to 25°C	Up to 24 hours at 2°C to 25°C	Up to 24 hours at 2°C to 25°C	Up to 24 hours at 2°C to 25°C	Up to 24 hours at 2°C to 25°C
<b>Stability of Punctured Vial (2°C to 25°C)</b>	Up to 12 hours	Up to 12 hours	Up to 12 hours	Up to 6 hours	Up to 12 hours	Up to 12 hours for a multi-dose vial	Up to 24 hours	Up to 24 hours	Up to 24 hours	Up to 24 hours
<b>Volume in Vial</b>	0.4 mL prior to dilution	1.3 mL prior to dilution	1.3 mL prior to dilution	0.45 mL prior to dilution	2.25 mL	2.25 mL	2.5 mL	5 mL	2.5 mL	2.5 mL
<b>Number of Doses in a Single Vial</b>	10 doses after dilution	10 doses after dilution	10 doses after dilution	6 doses after dilution	6 doses	6 doses per multi-dose vial	10 doses	10-20 doses	5 doses	5 doses
<b>Authorized Dose for Primary Series</b>	3 mcg / 0.2 mL (Ages 6 months to 4 years; no preference over SPIKEVAX® Monovalent Vaccine)	10 mcg / 0.2 mL (Preferred product for ages 5 to 11 years)	N/A	30 mcg / 0.3 mL (Preferred product for ages 12 to 29 years; no preference over SPIKEVAX® Monovalent vaccine in 30 years and older)	30 mcg / 0.3 mL (Preferred product for ages 12 to 29 years; no preference over SPIKEVAX® Monovalent vaccine in 30 years and older)	N/A	25 mcg / 0.25 mL (Ages 6 months to 5 years; preferred over COMIRNATY® Monovalent vaccine in ages 6 months to 4 years who are immuno-compromised)	50 mcg / 0.25 mL (Ages 6 to 11 years)  100 mcg / 0.5 mL (Ages 12 years and older)	N/A	N/A
<b>Authorized Dose for Booster</b>	N/A	10 mcg / 0.2 mL (Ages 5 to 11 years who are unable or unwilling to receive a bivalent Omicron-containing mRNA vaccine)	10 mcg / 0.2 mL (Only bivalent product for 5 years; preferred bivalent product for ages 6 to 11 years)	30 mcg / 0.3 mL (Ages 12 years and older who are unable or unwilling to receive a bivalent Omicron-containing mRNA vaccine)	30 mcg / 0.3 mL (Ages 12 years and older who are unable or unwilling to receive a bivalent Omicron-containing mRNA vaccine)	30 mcg / 0.3 mL (Preferred bivalent product for ages 12 to 17 years; no preference over SPIKEVAX® Bivalent BA.4/5 Booster Vaccine in ages 18 years and older)	50 mcg / 0.5 mL (Ages 12 years and older who are unable or unwilling to receive a bivalent Omicron-containing mRNA vaccine)	50 mcg / 0.25 mL (Ages 12 years and older who are unable or unwilling to receive a bivalent Omicron-containing mRNA vaccine)	25 mcg / 0.25 mL (Ages 6 to 11 years)  50 mcg / 0.5 mL (Ages 12 years and older)	50 mcg / 0.5 mL (Ages 18 years and older; no preference over COMIRNATY® Bivalent BA.4/5 Booster Vaccine)

\* **From MOH:** As of March 6, 2023, bivalent Moderna supply is being switched over to the bivalent Moderna BA.4/5 product and the bivalent Moderna BA.1 product will begin to be phased out. Although the indication for use of bivalent Moderna BA.1 as a booster was expanded to those 6 – 17 years on February 17, 2023, Ontario will not order more supply once the current supply has been depleted.

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## References:

### Product Monographs:

[COMIRNATY Product Monograph](#)  
[COMIRNATY Bivalent Product Monograph](#)  
[SPIKEVAX Product Monograph](#)  
[SPIKEVAX Bivalent \(BA.1\) Product Monograph](#)  
[SPIKEVAX Bivalent \(BA.4/5\) Product Monograph](#)

### Vial Images:

[COMIRNATY Vaccines Presentations FDA](#)  
[COMIRNATY Bivalent Label - 12 years and older](#)  
[COMIRNATY Bivalent Label - 5 to 11 years](#)  
[SPIKEVAX BA.1 Vial Image](#)  
[SPIKEVAX BA.4/5 Vial Image](#)  
[SPIKEVAX Vial Labels](#)

### Government Guidelines:

[COVID-19 vaccine: Canadian Immunization Guide - Canada.ca](#)  
[COVID-19 Vaccines and Treatments Portal](#)  
[COVID-19 Vaccine-Relevant Information and Planning Resources](#)  
[COVID-19 Vaccine Guidance Version 5.0 February 28, 2023](#)  
[Chapter 1: Storage and Handling of Pfizer-BioNTech's COVID-19 Vaccines](#)  
[Chapter 2: Storage and Handling of Moderna COVID-19 Vaccines](#)

### Other resources:

[COVID-19 mRNA Vaccines Approved For Use in Canada | Manitoba Health](#)  
[COVID-19 Vaccine Comparison - medSask Home - College of Pharmacy and Nutrition | University of Saskatchewan \(usask.ca\)](#)  
[CV-19 G0111 COVID-19 mRNA Vaccines Comparison Table](#)  
[CV-19 G0181 COVID-19 Bivalent Vaccines Comparison Table](#)  
[CV-19 G0088 COVID-19 Moderna Vaccine Preparation for Use \(saskhealthauthority.ca\)](#)  
[COVID-19 Vaccines Comparison Chart \(Nov 21\) | Metrodis.org](#)  
[Clinical Resources | BC CDC](#)  
[COVID-19 mRNA Vaccines | UpToDate](#)



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