

Storage and Handling	Janssen Biotech (JNJ-78436735) ¹⁻³	Novavax, Adjuvanted ⁴⁻⁶
Dry ice	<ul style="list-style-type: none"> Do not use; not stored frozen 	<ul style="list-style-type: none"> Do not use; not stored frozen
Freezer storage	<ul style="list-style-type: none"> Do not store frozen 	<ul style="list-style-type: none"> Do NOT store frozen
Refrigerator storage	<ul style="list-style-type: none"> 2°C to 8°C Protect from light. Do not store frozen. 	<ul style="list-style-type: none"> 2°C to 8°C Protect from light. Do not store frozen.
Refrigerator thawing	<ul style="list-style-type: none"> Vaccine is initially stored frozen by the manufacturer, then shipped at 2°C to 8°C. If vaccine is still frozen upon receipt, thaw at 2°C to 8°C. 	<ul style="list-style-type: none"> N/A: Vials are stored refrigerated, no need to thaw
Room temperature thawing	<ul style="list-style-type: none"> If needed immediately, thaw at room temperature (max 25°C). At room temperature, a carton of 10 vials will take ~4 hours to thaw, and an individual vial will take ~1 hour to thaw. Unpunctured vials may be stored between 9°C to 25°C for up to 12 hours. 	<ul style="list-style-type: none"> N/A: Vials are stored refrigerated, no need to thaw
In vial	<ul style="list-style-type: none"> Stable for up to 6 hours from first puncture at 2°C to 8°C or up to 2 hours at room temp (max 25°C) Discard vial if not used within these times 	<ul style="list-style-type: none"> After first needle puncture, store between 2°C to 25°C for up to 6 hours Discard vial 6 hours after first needle puncture
In syringe	<ul style="list-style-type: none"> Filled syringes stable for up to 6 hours stored in refrigerator (2°C to 8°C) or 2 hours stored at room temperature (max 25°C) after first vial puncture 	<ul style="list-style-type: none"> 2°C to 25°C for up to 6 hours
FDA status	<ul style="list-style-type: none"> EUA 	<ul style="list-style-type: none"> EUA: two-dose primary series
Age minimum	<ul style="list-style-type: none"> 18 years 	<ul style="list-style-type: none"> 12 years
Dose	<ul style="list-style-type: none"> 0.5 mL 	<ul style="list-style-type: none"> 0.5 mL
Dose interval dose 1 to 2	<ul style="list-style-type: none"> N/A; Single dose 	<ul style="list-style-type: none"> 3 weeks apart
Booster dose	<ul style="list-style-type: none"> 0.5 mL; Moderna or Pfizer-BioNTech as a booster dose is preferred to Janssen in most situations 	<ul style="list-style-type: none"> N/A
Booster dose interval	<ul style="list-style-type: none"> At least 2 months after primary series 	<ul style="list-style-type: none"> N/A
Dilution required? Additional instructions	<ul style="list-style-type: none"> DO NOT DILUTE Before withdrawing each dose of vaccine, carefully mix the contents of the multi-dose vial by swirling gently in an upright position for 10 seconds. Do not shake. 	<ul style="list-style-type: none"> DO NOT DILUTE Gently swirl vial before each dose withdrawal. Do not shake.
# of primary series doses/vial	<ul style="list-style-type: none"> 5 doses/vial (NDC 59676-580-15) 	<ul style="list-style-type: none"> 10 doses/vial (NDC 80631-100-01)
Determining # of vials to thaw	<ul style="list-style-type: none"> Vials are stored refrigerated, no need to thaw 	<ul style="list-style-type: none"> Vials are stored refrigerated, no need to thaw
Additional Information	<ul style="list-style-type: none"> Call Janssen Medical Information: 1-800-565-4008 	<ul style="list-style-type: none"> Call Novavax Medical Information: 1-844-668-2829
NOTES FOR ALL COVID-19 VACCINES	<ul style="list-style-type: none"> Never refreeze vaccines after thawing. CDC states that pre-drawing vaccines may result in waste if more are drawn up than necessary, so they state that vaccines should be drawn only in preparation for immediate administration. Do not pool excess vaccine from multiple vials. 	

Storage and Handling		Moderna (Spikevax [mRNA-1273]) ⁷⁻¹⁴	
Products	MONOVALENT COVID19 VACCINES		BIVALENT COVID19 VACCINE
Vial types and # doses per vial	MAGENTA LABEL AND DARK BLUE CAP VIAL		DARK BLUE LABEL WITH GRAY BORDER 5 dose; NDC: 80777-282-99
	10 doses; NDC 80777-279-99		
	TEAL LABEL AND DARK BLUE CAP VIAL		
	5 doses; NDC 80777-277-99		
	PURPLE LABEL AND DARK BLUE CAP VIAL		
	5 doses; NDC 80777-275-05		
	LIGHT BLUE LABEL AND RED CAP VIAL		
	11-Dose vial (10-11 doses) NDC 80777-273-99; 15-Dose vial (13-15 doses) NDC 80777-273-98		
Dry ice	<ul style="list-style-type: none"> Do not use 		<ul style="list-style-type: none"> Do not use
Freezer storage	<ul style="list-style-type: none"> -50°C to -15°C; Do not store below -50°C Keep in original packaging; Protect from light until ready to use 		<ul style="list-style-type: none"> -50°C to -15°C (-58°F to 5°F) Keep in original packaging; Protect from light until ready to use
Refrigerator storage	<ul style="list-style-type: none"> 2°C to 8°C for up to 30 days 		<ul style="list-style-type: none"> 2°C to 8°C (36°F to 46°F) for up to 30 days
Refrigerator thawing	<p>MAGENTA/TEAL/PURPLE Label vials:</p> <ul style="list-style-type: none"> Thaw between 2°C to 8°C for 2 hours. Let each vial stand at room temperature for 15 mins before administering. <p>LIGHT BLUE LABEL vials:</p> <ul style="list-style-type: none"> 5.5 mL (Max 11 Dose) Vial: Thaw at 2°C to 8°C for 2.5 hours 7.5 mL (Max 15 Dose) Vial: Thaw at 2°C to 8°C for 3 hours After thawing, let each vial stand at room temperature for 15 minutes prior to administering. 		<ul style="list-style-type: none"> Thaw between 2°C to 8°C (36°F to 46°F) for 2 hours. Let each vial stand at room temperature for 15 minutes before administering Vials may be refrigerated between 2°C to 8°C (36°F to 46°F) for up to 30 days prior to first use Vials should be discarded 12 hours after the first puncture Do not refreeze once thawed
Room temperature thawing	<p>MAGENTA/TEAL/PURPLE Label vials:</p> <ul style="list-style-type: none"> Thaw between 15°C to 25°C for 45 mins Unpunctured vials may be stored at 8°C to 25°C for up to 24 hrs. <p>LIGHT BLUE LABEL vials:</p> <ul style="list-style-type: none"> 5.5 mL vial (Max 11 Dose) Vial: Thaw at 15°C to 25°C for 1 hour 7.5 mL (Max 15 Dose) Vial: Thaw at 15°C to 25°C for 90 mins Unpunctured vials may be stored at 8°C to 25°C for up to 24 hrs. 		<ul style="list-style-type: none"> Thaw between 15°C to 25°C (59°F to 77°F) for 45 minutes. Vials may be stored between 8°C to 25°C (46°F to 77°F) for a total of 24 hours Vials should be discarded 12 hours after the first puncture Total storage at 8°C to 25°C (46°F to 77°F) must not exceed 24 hours Do not refreeze once thawed
In vial	<ul style="list-style-type: none"> Stable for up to 12 hours from initial vial puncture at 2°C to 25°C; Discard after 12 hours 		<ul style="list-style-type: none"> Stable for up to 12 hours from initial vial puncture at 2°C to 25°C; Discard after 12 hours
In syringe	<ul style="list-style-type: none"> Stable for up to 12 hours from initial vial puncture (labeling and time stamp recommended) Store in refrigerator (2°C to 8°C) or at room temperature (15°C to 25°C); Keep out of direct sunlight 		<ul style="list-style-type: none"> Stable for up to 12 hours from initial vial puncture Store at 2°C to 8°C or 15°C to 25°C; Keep out of direct sunlight
FDA status	<p>FDA-approved</p> <ul style="list-style-type: none"> Primary two-dose series in individuals age ≥ 18 years 	<p>EUA:</p> <ul style="list-style-type: none"> Primary 2-dose series in individuals 6 months through 17 years old Primary 3-dose series for certain immunocompromised patients age ≥ 6 months First booster for individuals ≥ 18 years who have received primary series with Moderna or another authorized/approved COVID19 vaccine 2nd booster for people ≥ 50 years or certain immunocompromised ≥ 18 years 	<p>EUA</p> <ul style="list-style-type: none"> Single-booster dose (Moderna Bivalent COVID19: DARK BLUE LABEL) in adults ≥ 18 years at least 2 months after any authorized or approved monovalent COVID19 vaccine for: <ul style="list-style-type: none"> Completion of primary COVID19 vaccination OR Receipt of the most recent COVID19 booster dose
Age minimum	<ul style="list-style-type: none"> 6 months 		<ul style="list-style-type: none"> ≥ 18 years
Dose	<ul style="list-style-type: none"> 0.5 mL for ≥ 12 years (LIGHT BLUE LABEL) 0.5 mL for 6-11 years (PURPLE* or TEAL Label); *PURPLE label vial states on vial “<i>BOOSTER DOSES ONLY</i>” but it may be used for primary dose series for individuals 6-11 years old 0.25 mL for 6 months to 5 years (MAGENTA LABEL) 		<ul style="list-style-type: none"> N/A (Booster only)
Dose interval dose 1 to 2	<ul style="list-style-type: none"> 4 weeks 3rd primary series dose ≥ 1 month after the 2nd dose is authorized in patients (≥ 6 months) who have undergone solid organ transplant or are diagnosed with conditions considered to have an equivalent level of immunocompromised 		<ul style="list-style-type: none"> N/A; Booster only - May be given 2 months after the completion of primary vaccination with any authorized or approved monovalent COVID19 vaccine
Booster dose	<ul style="list-style-type: none"> 0.25 mL (LIGHT BLUE Label) 0.5 mL (PURPLE Label) Only for ≥ 18 years old 		<ul style="list-style-type: none"> 0.5 mL Only for ≥ 18 years
Booster dose interval (after receiving primary series)	<ul style="list-style-type: none"> At least 5 months after primary series A 2nd booster may be given ≥ 4 months after 1st booster for individuals ≥ 50 years old and certain immunocompromised adults ≥ 18 years old 		<ul style="list-style-type: none"> May be given to adults ≥ 18 years at least 2 months after completion of primary vaccination OR receipt of the most recent booster dose with any authorized or approved monovalent COVID19 vaccine
Dilution required?	<ul style="list-style-type: none"> DO NOT DILUTE 		<ul style="list-style-type: none"> DO NOT DILUTE
Additional instructions	<ul style="list-style-type: none"> Swirl gently after thawing and between each withdrawal. DO NOT SHAKE. Pierce stopper at different site each time; Do not puncture individual vial stopper more than 20 times. 		<ul style="list-style-type: none"> Swirl gently after thawing and between each withdrawal. DO NOT SHAKE.
Additional Information	<ul style="list-style-type: none"> Call Moderna Medical Information: 1-866-663-3762 		

Storage and Handling	Pfizer-BioNTech (Comirnaty [BNT162b2]) ¹⁵⁻²⁴	
Products	MONOVALENT COVID19 VACCINES	BIVALENT COVID19 VACCINE
	PURPLE cap and label vial	GRAY cap and label with gray borders
	6-7 doses; NDC 59267-1000-3; 59267-1000-2	1 dose (SDV); NDC: 59267-1401-1
	GRAY cap and label vial	6 doses (MDV); NDC 59267-0304-2; 59267-0304-3
	6-7 doses; NDC 59267-1025-4; 59267-1025-3	
	ORANGE cap and label vial	
	10 doses; NDC 59267-1055-4	
MAROON cap and label vial		
10 doses; NDC 59267-0078-4		
Dry ice	<ul style="list-style-type: none"> Thermal shipping container may be used as temporary storage ≤ 30 days from delivery with proper dry ice replenishment. 	<ul style="list-style-type: none"> Thermal shipping container may be used as temporary storage ≤ 30 days from delivery with proper dry ice replenishment.
Freezer storage	<ul style="list-style-type: none"> -90°C to -60°C until expiration date; Keep in original packaging and protect from light until ready to use PURPLE cap vials may be stored at -25°C to -15°C for up to 2 weeks, and then may be returned <u>one</u>-time to -90°C to -60°C storage (track storage time/temperature) DO NOT STORE GRAY/ORANGE/MAROON vials in freezer (-25°C to -15°C). Vials expire 12 months from manufactured date regardless of storage 	<ul style="list-style-type: none"> May be stored in ultra-low temperature freezer at -90°C to -60°C for up to 12 months from date of manufacture DO NOT STORE vials at -25°C to -15°C Once vials are thawed, they should not be refrozen
Refrigerator storage	<ul style="list-style-type: none"> 2°C to 8°C for up to 1 month for PURPLE cap vials and 10 weeks for GRAY/ORANGE/MAROON cap vials Minimize room light exposure and avoid exposure to direct sunlight/ultraviolet light 	<ul style="list-style-type: none"> 2°C to 8°C for up to 10 weeks
Refrigerator thawing	<ul style="list-style-type: none"> Thaw in refrigerator (2°C to 8°C); may take up to 6 hours depending on cap vial color and/or number of vials Vials that require dilution must be at room temperature at least 30 minutes prior to diluting 	<ul style="list-style-type: none"> Thaw at 2°C to 8°C; may take 2 hours (SDV) to 6 hours (MDV) Allow vial to sit at room temp for 30 minutes
Room temperature thawing	<ul style="list-style-type: none"> Thaw at room temperature (up to 25°C) for 30 minutes Vials that require dilution must be at room temperature for 30 minutes prior to diluting PURPLE cap vials must be diluted within 2 hours of reaching room temperature MAROON/ORANGE/GRAY cap vials may be stored at room temperature (8°C to 25°C) for 12 hours prior to dilution 	<ul style="list-style-type: none"> Allow vials to thaw at room temp (up to 25°C) for 30 minutes Thaw at room temp (8°C to 25°C) for a total 12 hours prior to 1st puncture. After 1st puncture, the MDV should be stored between 2°C to 25°C (35°F to 77°F), and discarded 12 hours after 1st puncture
In vial	<ul style="list-style-type: none"> PURPLE CAP VIALS: Stable for up to 6 hours from dilution at 2°C to 25°C; Discard after 6 hours GRAY/ORANGE/MAROON cap vials: Stable for up to 12 hours from dilution at 2°C to 25°C; Discard after 12 hours 	<ul style="list-style-type: none"> Stable in vial for up to 12 hours after 1st puncture when stored between 2°C to 25°C (35°F to 77°F)
In syringe	<ul style="list-style-type: none"> PURPLE CAP VIALS: Stable for up to 24 hours from dilution at 2°C to 30°C ± 2°C in polycarbonate and polypropylene syringes with stainless steel needles, with ≤ 6 hours at room temp (up to 30°C) and remainder at (2°C to 8°C) GRAY/ORANGE cap vials: Stable for up to 24 hours from dilution at 2°C to 30°C ± 2°C in polycarbonate and polypropylene syringes with stainless steel needles, with ≤ 12 hours at room temp (up to 30°C) and remainder in refrigerator (2°C to 8°C) MAROON cap: use immediately 	<ul style="list-style-type: none"> Stable in syringe for up to 12 hours when stored between 2°C to 25°C (35°F to 77°F)
FDA status	<p>FDA-approved EUA:</p> <ul style="list-style-type: none"> Primary 2-dose series for age ≥ 12 yrs Primary 2-dose series in 5+ years; 3rd primary series dose in 5+ years with certain immunocompromising conditions; booster dose Primary 3-dose series for 6 months to < 5 years; Children turning from 4 to 5 years of age between any 2 doses in the primary series may receive: <ul style="list-style-type: none"> 2-dose primary series with the Pfizer-BioNTech COVID-19 Vaccine authorized for use in individuals 5 through 11 years of age OR 3-dose primary series initiated with the Pfizer-BioNTech COVID-19 Vaccine authorized for use in individuals 6 months through 4 years 	<p>EUA</p> <ul style="list-style-type: none"> Single-booster dose (Pfizer Bivalent COVID19: GRAY cap and label with gray border) in ≥ 12 years at least 2 months after any authorized or approved monovalent COVID19 vaccine for: <ul style="list-style-type: none"> Completion of primary COVID19 vaccination OR Receipt of the most recent COVID19 booster dose
Age minimum	<ul style="list-style-type: none"> 6 months 	<ul style="list-style-type: none"> ≥ 12 years
Dose	<ul style="list-style-type: none"> 0.3 mL for 12+ years (PURPLE or GRAY cap vial) 0.2 mL for 5-11 years (ORANGE cap vial) 0.2 mL for 6 months to < 5 years (MAROON cap vial) 	<ul style="list-style-type: none"> N/A; BOOSTER ONLY
Dose interval dose 1 to 2	<p>Age 6 months to < 5 years (MAROON): ≥ 5 years:</p> <ul style="list-style-type: none"> 3 doses; 3 weeks 3 weeks apart between doses 1 and 2 3rd primary series dose ≥ 28 days after the 2nd dose is authorized in patients (≥ 5 years) who have undergone solid organ transplant or are diagnosed with conditions considered to have an equivalent level of immunocompromised Dose 3 at least 8 weeks after dose 2 	<ul style="list-style-type: none"> N/A; BOOSTER ONLY
Booster dose	<ul style="list-style-type: none"> 0.3 mL (for 12+ years only) (PURPLE or GRAY cap vial) 0.2 mL (for 5-11 years only) (ORANGE cap vial) 	<ul style="list-style-type: none"> 0.3 mL (≥ 12 years)
Booster dose interval (after receiving primary series)	<ul style="list-style-type: none"> At least 5 months after primary series A 2nd booster may be given ≥ 4 months after 1st booster for individuals ≥ 50 years old and certain immunocompromised patients ≥ 12 years old (PURPLE or GRAY cap vial) 	<ul style="list-style-type: none"> ≥ 12 years at least 2 months after completion of primary vaccination OR receipt of the most recent booster dose with any authorized or approved monovalent COVID19 vaccine

Pfizer-BioNTech (Comirnaty [BNT162b2]) ¹⁵⁻²⁴	
Products	MONOVALENT COVID19 VACCINES
Dilution required? Additional instructions	PURPLE cap and label vial
	<ul style="list-style-type: none"> • DILUTE • After vial reaches room temperature, invert vial 10 times; dilute with 1.8 mL of <u>Preservative-Free</u> 0.9% NS and remove 1.8 mL of air from vial; invert vial 10 times. DO NOT SHAKE. • Must be diluted within 2 hours of reaching room temperature
	GRAY cap and label vial
	<ul style="list-style-type: none"> • DO NOT DILUTE • Before withdrawing each dose of vaccine, carefully mix by inverting vaccine vial gently 10 times. DO NOT SHAKE.
	ORANGE cap and label vial
	<ul style="list-style-type: none"> • DILUTE • After vial reaches room temperature invert vial 10 times; dilute with 1.3 mL of <u>Preservative-Free</u> 0.9% NS and remove 1.3 mL of air from vial; invert vial 10 times. DO NOT SHAKE.
	MAROON cap and label vial
	<ul style="list-style-type: none"> • DILUTE • Each vial must be thawed before dilution either in the refrigerator (2 °C to 8 °C) or room temperature (up to 25 °C) • Mix by gently inverting vial 10 times. DO NOT SHAKE. • Dilute the vial contents using 2.2 mL of sterile 0.9% NS and remove 2.2 mL air from vial. • Gently invert the vial 10 times to mix; DO NOT SHAKE.
Additional Information	<ul style="list-style-type: none"> • Call Pfizer Medical Information: 1-800-438-1985

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