



CERTIFICATE OF ANALYSIS

Product Description:	mRNA-1273	Moderna Part #:	60075
Manufacturer Name:	Moderna	Container/Closure:	10R Glass Vial, 20mm Stopper, 20mm Plascap
Manufacturer Lot:	7006320007 (Labeled Drug Product)		
Moderna Lot Number:	6007520007	Specification:	SPC-1063
Date of Manufacture:	09Jul2020	Expiry Date:	09Jan2022

Product Attribute	Method	Parameter	Specification	Result
Appearance	SOP-0278	Appearance - Color	White to off-white dispersion.	White to off-white dispersion
		Appearance - Particulates	May contain visible, white or translucent product-related particles	Essentially Free of Particulates
Concentration	SOP-0235	Concentration	(b) (4) (Target: 0.20 mg/mL)	
Identity	SOP-0544	Identity	(b) (4)	
Purity	SOP-0383	Purity	(b) (4)	
		% IG1	(b) (4)	
		% IG2	(b) (4)	
		% IG3	(b) (4)	
% RNA Encapsulation	SOP-0298	% Encapsulation	(b) (4)	
In vitro Translation (Potency)	SOP-0937	Result	(b) (4)	
pH	SOP-0288	pH	(b) (4)	
Osmolality	SOP-0279	Osmolality	(b) (4)	
Dynamic Light Scattering	SOP-0107	Particle Size	(b) (4)	
		Polydispersity	(b) (4)	
Lipid Identification	SOP-0502	SM102	(b) (4)	
		Cholesterol	(b) (4)	

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Product Attribute	Method	Parameter	Specification	Result
		DSPC	(b) (4)	
		PEG-DMG		
Lipid Content		SM102		
		Cholesterol		
		DSPC		
		PEG-DMG		
Lipid Impurities		% Area 1		
		% Area 2		
		% Area 3		
		% Area 4		
		RRT 1		
		RRT 2		
		RRT 3		
		RRT 4		
		% Total Impurities		
Particulate Matter	SOP-0509	10 µm particles per container		
		25 µm particles per container		

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Product Attribute	Method	Parameter	Specification	Result
Container Content	SOP-0950	Container Content	(b) (4)	[Redacted]
Bacterial Endotoxins	USP <85>	Bacterial Endotoxins		
Sterility	SOP-0378	Sterility		

This material meets specification: Yes

Revision History:

- 1.0 - Original
- 2.0- Extended expiry from 09Jan2021 (6M) to 09Apr2021 (9M) from DOM. Reference DPAD-01025.
- 3.0- Extend expiry from 09Apr2021 (9M) to 09Jan2022 (18M) from DOM. Reference QC-OTH-0359.

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