

CERTIFICATE OF ANALYSIS

Product Description:	mRNA-1273	Moderna Part #:	60075
Manufacturer Name:	Moderna	Container/Closure:	10R Glass Vial, 20mm Stopper, 20mm Plascap
Manufacturer Lot:	7006320003 (LDP) 7006320010 (LDP)		
Moderna Lot Number:	6007520003	Specification:	SPC-1063
Date of Manufacture:	04Jun2020	Expiry Date:	04Mar2021

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)	
Identity	SOP-0544	Identity		
Purity	SOP-0383	Purity		
		% IG1		
		% IG2		
		% IG3		
% RNA Encapsulation	SOP-0298	% Encapsulation		
In vitro Translation (Potency)	SOP-0937	Result		
pH	SOP-0288	pH		
Osmolality	SOP-0279	Osmolality		
Dynamic Light Scattering	SOP-0107	Particle Size		
		Polydispersity		
Lipid Identification	SOP-0502	SM102		
		Cholesterol		

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FDA-CBER-2022-1614-3815175



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Product Attribute	Method	Parameter	Specification	Result
Lipid Content		DSPC	(b) (4)	
		PEG-DMG		
		SM102		
		Cholesterol		
Lipid Impurities		DSPC		
		PEG-DMG		
		% Area 1		
		% Area 2		
		% Area 3		
		% Area 4		
		% Area 5		
		% Area 6		
		RRT 1		
		RRT 2		
		RRT 3		
		RRT 4		
		RRT 5		
		RRT 6		

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Product Attribute	Method	Parameter	Specification	Result
		% Total Impurities	(b) (4)	
Particulate Matter	SOP-0509	10 µm particles per container		
		25 µm particles per container		
Container Content	SOP-0950	Container Content		
Bacterial Endotoxins	USP <85>	Bacterial Endotoxins		
Sterility	SOP-0378	Sterility		

This material meets specification: Yes

Revision History:

- 1.0 - Original
- 2.0 - Expiry updated from 04Sep2020 to 04Dec2020
- 3.0 - Added second Labeled Drug Product (LDP) lot number 7006320010
- 4.0- Extend expiry from 04Dec2020 (6M) to 04Mar2021(9M) from DOM. Reference DPAD-01025.

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Document Approvals
Approved Date: 18 Nov 2020

Approval Verdict: Approved	(b) (6) (b) (6) @modernatx.com) Quality Control Approval 16-Nov-2020 16:04:03 GMT+0000
QA Approval Verdict: Approved	(b) (6) (b) (6) @modernatx.com) Quality Assurance Approval 18-Nov-2020 13:56:11 GMT+0000