

CERTIFICATE OF ANALYSIS

Product Description:	mRNA-1273	Moderna Part #:	60075
Manufacturer Name:	Moderna	Container/Closure:	10R Glass Vial, 20mm Stopper, 20mm Plascap
Manufacturer Lot:	7006320004 (Labeled Drug Product)		
Moderna Lot Number:	6007520004	Specification:	SPC-1063
Date of Manufacture:	25Jun2020	Expiry Date:	25Dec2020

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-2022-1614-3815179



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Product Attribute	Method	Parameter	Specification	Result
Lipid Content		DSPC	(b) (4)	
		PEG-DMG		
		SM102		
		Cholesterol		
		DSPC		
Lipid Impurities		PEG-DMG		
		% Area 1		
		% Area 2		
		% Area 3		
		% Area 4		
		RRT 1		
		RRT 2		
		RRT 3		
		RRT 4		
Particulate Matter	SOP-0509	% Total Impurities		
		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)	
Bacterial Endotoxins	USP <85>	Bacterial Endotoxins		
Sterility	SOP-0378	Sterility		

This material meets specification: Yes

Revision History:

- 1.0 - Original
- 2.0 - Batch Date corrected from 26Jun2020 to 25Jun2020. Expiry date corrected to 26Sep2020 to 25Sep2020
- 3.0 - Expiry date updated from 25Sep2020 to 25Dec2020

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Document Approvals
Approved Date: 14 Aug 2020

Approval Verdict: Approved	Steven Anderson, (b) (6) @modernatx.com) Quality Control Approval 14-Aug-2020 11:06:24 GMT+0000
QA Approval Verdict: Approved	(b) (6) (b) (6) @modernatx.com) Quality Assurance Approval 14-Aug-2020 15:02:32 GMT+0000