



CERTIFICATE OF ANALYSIS

Product Description:	mRNA-1273 Lipid Nanoparticle	Moderna Part #:	50075
Manufacturer Name:	Moderna	Container/Closure:	(b) (4)
Manufacturer Lot:	5007520002		
Moderna Lot Number:	5007520002	Specification:	SPC-1213
Date of Manufacture:	06Nov2020	Expiry Date:	04Feb2021

Product Attribute	Method	Parameter	Specification	Result
Appearance	SOP-0278	Appearance - Color	(b) (4)	
		Appearance - Particulates		
Identity	SOP-1032	Identity		
Concentration	SOP-0999	Concentration		
Purity	SOP-0996	Purity		
		% IG1		
		% IG2		
		% IG3		
		% Total Impurities		
% RNA Encapsulation	SOP-1000	% Encapsulation		
Dynamic Light Scattering	SOP-0998	Particle Size		
		Polydispersity		
Lipid Identification	SOP-1001	SM102		
		Cholesterol		
		DSPC		
		PEG-DMG		

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FDA-CBER-2022-1614-3815340



CERTIFICATE OF ANALYSIS

Product Description:	mRNA-1273 Lipid Nanoparticle	Moderna Part #:	50075
Manufacturer Name:	Moderna	Container/Closure:	(b) (4)
Manufacturer Lot:	5007520002		
Moderna Lot Number:	5007520002	Specification:	SPC-1213
Date of Manufacture:	06Nov2020	Expiry Date:	04Feb2021

Product Attribute	Method	Parameter	Specification	Result
Lipid Content		SM102	(b) (4)	
		Cholesterol		
		DSPC		
		PEG-DMG		
Lipid Impurities		% Area 1		
		% Area 2		
		% Area 3		
		RRT 1		
		RRT 2		
		RRT 3		
		% Total Impurities		
pH	SOP-0288	pH		
Osmolality	SOP-0279	Osmolality		
Bacterial Endotoxins	USP <85>	Bacterial Endotoxins		
Bioburden	SOP-0480	TAMC		
		TYMC		

This material meets specification: Yes

Revision History:

1.0 - Original

2.0 - Corrected expiration date to 04Feb2021

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FDA-CBER-2022-1614-3815341

Document Approvals
Approved Date: 05 Feb 2021

Approval Verdict: Approved	Steven Anderson, (b) (6) @modernatx.com) Quality Control Approval 05-Feb-2021 18:22:09 GMT+0000
QA Approval Verdict: Approved	(b) (6) , (b) (6) @modernatx.com) Quality Assurance Approval 05-Feb-2021 19:09:29 GMT+0000