



CERTIFICATE OF ANALYSIS

Product Description:	mRNA-1273 PRM/WRM	Moderna Part #:	N/A
Manufacturer Name:	Moderna	Container/Closure:	2R Glass Vial, 13mm Stopper, 13mm Plascap
Manufacturer Lot:	D006520001		
Moderna Lot Number:	D006520001	Specification:	SPC-1136
Date of Manufacture:	26Aug2020	Expiry Date:	26Aug2021

Test	Method	Parameter	Specification	Result
Appearance	SOP-0278	Appearance - Color	(b) (4)	
		Appearance - Particulates		
Concentration	SOP-0999	Concentration		
Identity	SOP-1032	Identity		
Purity	SOP-0996	Purity		
		% IG1		
		% IG2		
		% IG3		
% RNA Encapsulation	SOP-1000	% Encapsulation		
In vitro Translation (Potency)	SOP-0937	Result		
pH	SOP-0288	pH		
Osmolality	SOP-0279	Osmolality		
Dynamic Light Scattering	SOP-0998	Particle Size		
		Polydispersity		
Lipid Identification	SOP-1001	SM102		
		Cholesterol		

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Generated By: Steven Anderson



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

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	Method	Parameter	Specification	Result
Bacterial Endotoxins	USP <85>	Bacterial Endotoxins	(b) (4)	
Bioburden	SOP-0480	CFU		

This material meets specification: Yes

Revision History:

1.0 - Original

Document Approvals
Approved Date: 29 Mar 2021

Approval Verdict: Approved	Steven Anderson, (b) (6) @modernatx.com) Quality Control Approval 12-Mar-2021 16:41:10 GMT+0000
QA Approval Verdict: Approved	(b) (6) , (b) (6) @modernatx.com) Quality Assurance Approval 30-Mar-2021 00:45:06 GMT+0000