



One Moderna Way • Norwood, MA 02062
Phone 617.714.6500 • Fax 617.583.1998

CERTIFICATE OF ANALYSIS

Product Description:	mRNA-1273	Moderna Part #:	70076
Manufacturer Name:	Baxter	Container/Closure:	10R Velocity Glass Vial, 20 mm Stopper, 20 mm Cap
Manufacturer Lot:	939676		
Moderna Lot Number:	7007621005	Specification:	SPC-1353
Date of Manufacture:	06Apr2021	Expiry Date:	06Nov2021

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-0999	RNA Content	(b) (4) (Target: 0.20 mg/mL)	
Identity	SOP-1032	Identity	(b) (4)	
Purity	SOP-0996	Purity		
		% IG1		
		% IG2		
		% IG3		
% RNA Encapsulation	SOP-1000	% Encapsulation		
In vitro Translation	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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Document Number: VV-QUAL-005290 eDMS Version: 1.0
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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		
		%Area 5		
		RRT 1		
		RRT 2		
		RRT 3		
		RRT 4		
		RRT 5		
		% Total Impurities		
Particulate Matter	SOP-0509	≥ 10 µm particles per container		
		≥ 25 µm particles per container		
Container Content	SOP-1299	Container Content	Syringe/Needle Option A: 15 doses of 0.5 mL from 1 vial Option B: 13 doses of 0.5 mL from 1 vial	(b) (4)
Bacterial Endotoxins	USP <85>	Bacterial Endotoxins	(b) (4)	
Sterility	USP <71>	Sterility		

This material meets specification: Yes

Revision History:

1.0 – Original

Unlabeled Drug Product Lot Numbers: 6008921001 (Moderna), 939675 (Baxter)
Drug Substance Manufacturers: Lonza, Portsmouth, NH and Moderna, Norwood, MA
Drug Substance Lot Number: 5007521075 (Lonza), 5007521132 (Moderna)

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Document Approvals
Approved Date: 04 May 2021

Approval Verdict: Approved	Steven Anderson, (b) (6) @modernatx.com) Quality Control Approval 04-May-2021 19:35:24 GMT+0000
QA Approval Verdict: Approved	(b) (6) (b) (6)@modernatx.com) Quality Assurance Approval 04-May-2021 21:32:35 GMT+0000