

Pfizer Global Supply Rijksweg 12, 2870 Puurs, Belgium

Date: 21-Dec-2020

Paul-Ehrlich-Institut Section 2/1 Viral Vaccines Federal Institute for Vaccines and Biomedicines Paul-Ehrlich-Str. 51-59 63225 Langen/Germany

Please consider this as an official request for Official Control Authority Batch Release (OCABR) and German National Release for the following product:

Trade Name:	COMIRNATY
Type of Container:	Vial
Storage Conditions:	5.1.1c
Marketing Authorisation	BioNTech Manufacturing GmbH, An der Goldgrube 12, 55131 Mainz,
Holder:	Germany
Batch Number:	5.1.1c
Date of Filling:	5.1.1c
Expiry Date:	5.1.1c
Total Quantity:	280 020
Site of Manufacture:	5.1.1c

Please find enclosed the lot release protocol and genealogy diagram for this batch. The lot release protocol has been reviewed by a Qualified Person and found to be satisfactory.

In addition, the OMCL performing OCABR has been notified of all relevant approved variations that have an impact on product specifications or on data supplied in section 3 of this protocol as described in the EU administrative procedure for OCABR.

5.1.2e 21 Dec 2020 16:29:029-0500

REASON: I approve this document as author.

Prepared By: 1a0df018-cfc8-4053-a93e-ef7cc9ad4eca

5.1.2e

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REASON FOR SUBMISSION:

For Release

Lot Number: 5.1.1c

Trade Name of Product: COMIRNATY Licensed Name of Product: COMIRNATY

Marketing Authorisation Holder Name and Address: BioNTech Manufacturing GmbH, An der Goldgrube 12,

55131 Mainz, Germany

Manufacturing Site: 5.1.1d

Marketing Authorisation Number: EU/1/20/1528

Date of Manufacture: 13-Nov-2020 Date of Expiry: 5.1.1c

Date of Fill: 20-Nov-2020

Product Information:

LOT GENEALOGY

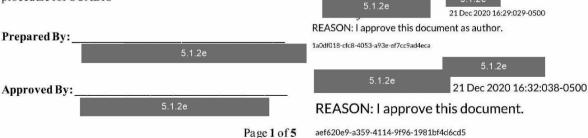
Component Description	Batch Number	Date of Manuf.	ManufactureSite	Quantity	Target Concentration
Working Cell Bank					
DNA Plasmid linearized					
BNT162b2			5.1.1c		
Drug Substance					
LNP Fabrication and					
Bulk Drug Product					
Formulation					
Drug Product Fill/					
Packaging					

FILL INFORMATION

Container Type:	Vial	Volume per container:	0.45mL
Approved Storage Period:		Storage Temperature:	
Number of containers for release:	5.1.1c	Number of Doses per container:	5.1.1c
Volume of single human dose:		Start Date of period of Validity:	

Certification by qualified person taking the overall responsibility for production and control of the product was manufactured and tested according to the procedures approved by the competent authorities and complies with the quality requirements. This includes that, for any materials derived from ruminants (bovine, ovine, caprine) used in the manufacture and/or formulation of the batch of products pecified a bove, all measures have been taken to demonstrate compliance with Directive 2001/83/EC and amending Directives 2003/63/EC and 2004/27/EC.

In addition, the OMCL performing OCABR has been notified of all relevant approved variations that have an impact on product specifications or on data supplied in section 3 of this protocol as described in the EU administrative procedure for OCABR.



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Licensed Name of Product: COMIRNATY

Table 1. Filled Vaccine Quality Control Tests

Test	Test Method	Specification	Date of Test	Result
Appearance				
Appearance (Visible Particulates)				
Subvisible Particles				
pН				
Osmolality				
LNP Size				
LNP Polydispersity		5.1.1c		
RNA Encapsulation				
RNA content				
ALC-0315 content				
ALC-0159 content				
DSPC content				
Cholesterol content				
Container content for injections				

Licensed Name of Product: COMIRNATY

Table 1 (Continued) Filled Vaccine Quality Control Tests

Test	Test Method	Specification	Date of Test	Result
Lipid identities				
Identity of encoded RNA sequence		5.1.1c		
In Vitro Expression				
RNA Integrity				
Bacterial Endotoxin				

Abbreviations: LNP=Lipid nanoparticles; CAD=charged aerosol detector; RT-PCR=reverse transcription polymerase chain reaction; FACS=fluorescence activated cell sorter; ddPCR=droplet digital PCR; qPCR=quantitative PCR; dsRNA=double stranded RNA; LAL=Limulus amebocytelysate; EU=endotoxin unit

Filled Vaccine Quality Control Tests (cont.)

Sterility

Method: Mem brane Filtration Type: Final Container

Container: Sterility-20 m L/medium (40 vials)

Date on Test	Medium/Temperature	Date Off Test	Specification	Test Result
		5.1.1c		

Table 2: Fill Vaccine In-Process Tests - Fill Weight Measurements

Fill Weight (g)	Acceptance Criteria	Pump #1	Pump #2	Pump #3	Pump #4	Pump #5	Pump #6	Pump #7	Pump #8
Minimum									
Maximum					5.1.1c				
Median									

Licensed Name of Product: COMIRNATY

BNT162b2 LNP Fabrication & Drug Product Formulation

Lot Number: 5.1.1c

Manufacturing Site: 5.1.1c

Table 1: In-Process Tests (IPT-C)

Test	Test Method	Specification	Date of Test	Result
pH of Citrate Buffer				
pH of Phosphate Buffered Saline (PBS) RNA Content (Post bioburden reduction		5.1	.1c	
filtration prior to PBS addition)				

Licensed Name of Product: COMIRNATY

BNT162b2 Drug Substance

Lot Number: 5.1.1c

Manufacturing Site: Andover Clinical Manufacturing Facility (ACMF), Pfizer Inc, 1 Burtt Rd., Andover, MA

01810USA

Date of Manufacture: 24-Sep-2020 Date of Expiry: 5.1.1c

Storage Temperature: 5.1.1c Approved Storage Period: 5.1.1c

Consumed Quantity: 30968 g

Table 1. Drug Substance In-Process Tests (IPT-C)

Test	Test Method	Specification	Date of Test	Result
RNA Content (UFDF				
Pool Pre-Dilution)		5.1.1c		
RNA Content(UFDF		5.1.10		
Pool Post Dilution)				

Table 2. Drug Substance Quality Control Tests

Test	Test Method	Specification	Date of Test	Result
Clarity				
Coloration				
pН				
Content (RNA Concentration)				
Identity of Encoded RNA Sequence				
RNA Integrity		5.1.1c		
5'- Cap				
Poly(A)Tail				
Residual DNA Template				
Residual dsRNA				
Bacterial Endotoxin				
Bioburden				

Abbreviations: NTU=Nephelometric Turbidity Units; B=brown; RT-PCR=reverse transcription polymense chain reaction; ddPCR=droplet digital PCR; qPCR=quantitative PCR; dsRNA=double stranded RNA; LAL=Limulus amebocyte lysate; EU=endotoxin unit; CFU=colony forming unit

5.1.1c

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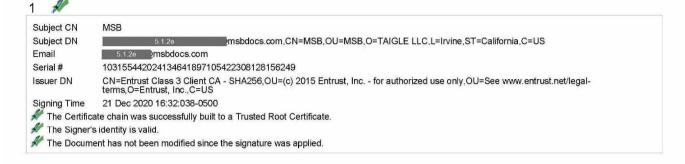
COMIRNATY Genealogy Flowchart

Г	Working Call Dank
F	Working Cell Bank
	MO63017, USA
_	\Box
	Linearised DNA Template
	St. Louis Laboratories Pfizer Inc. 875 Chesterfield Parkway West, Chesterfield, MO63017, USA
	BNT162b2 Drug Substance
	5.1.1c Andover Clinical Manufacturing Facility (ACMF), Pfizer Inc, 1 Burtt Rd., Andover, MA 01810 USA
	$\overline{\Box}$
	LNP Fabrication & Bulk Drug Product Formulation
	5.1.1c Pfizer Global Supply, PGS Puurs, Rijksweg 12, 2870 Puurs, Belgium
	$\overline{\Box}$
	Fill/Packaged Lot
	EJ6796 Pfizer Global Supply, PGS Puurs, Rijksweg 12, 2870 Puurs, Belgium
	5.1.2e
Prepared By: REASON: Lappre	rove this document as author. 5.1.2e
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ApprovedBy:	5.1.2e
REASON: I a	approve this document.
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Validation Report as of: 21 Dec 2020 16:51:048-0500



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Audit Trail Report

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21 Dec 2020 22:26:037+0100	5.1.2e		RequestSent	Sign request sent to ePak recipient. User UUID : aef520e9-a359-4114-9f96-1981bf4d6cd5 User Email : 5.1.2e @pfizer.com
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21 Dec 2020 22:32:039+0100	5.1.2e	EJ6796 OCABR Release Request EJ6796 .pdf	Signed	The recipient signed the document with no comments. Comments: None Reason: I approve this document. I approve this document. User UUID: aetf5209-3359-4118-996-1981bf4d6cd5 User Ernal: 5 22 2678-268-41574-6264-6268-6268-6
21 Dec 2020 22:32:039+0100	5.1.2e		Completed	The ePak completed the workflow successfully custodian. User UUID : 1a0df018-cfc8-4053-a93e-ef7cc9ad4eca User Email : 5.12e

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