



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

## CERTIFICATE OF ANALYSIS

Product Description: CX-024414 Moderna Part #: 40074  
Manufacturer Name: Lonza Biologics Inc (Portsmouth) Container/Closure: Mobius (b) (4)  
Manufacturer Lot: 943122  
Moderna Lot Number: 4007420010 Specification: SPC-1149  
Date of Manufacture: 08Nov2020 Expiry Date: 07May2021

| Product Attribute                 | Method   | Parameter             | Specification | Result |
|-----------------------------------|----------|-----------------------|---------------|--------|
| Appearance                        | SOP-0278 | Clarity               | (b) (4)       |        |
|                                   |          | Color                 |               |        |
|                                   |          | Particulates          |               |        |
| Identity                          | SOP-1019 | Identity              |               |        |
| Total RNA Content                 | SOP-0995 | Total RNA Content     |               |        |
| Purity                            | SOP-0996 | Purity                |               |        |
|                                   |          | % IG1                 |               |        |
|                                   |          | % IG2                 |               |        |
| % 5' Capped                       | SOP-0997 | Cap1                  |               |        |
| % Poly A Tailed and Tailless mRNA | SOP-0994 | % Main Peak Area      |               |        |
|                                   |          | % Pre-Main Peak       |               |        |
| Residual DNA template             | SOP-1020 | Residual DNA Template |               |        |
| pH                                | SOP-0288 | pH                    |               |        |
| Bacterial Endotoxins              | USP <85> | Bacterial Endotoxins  |               |        |
| Bioburden                         | USP <61> | TAMC                  |               |        |
|                                   |          | TYMC                  |               |        |

CONFIDENTIAL - DO NOT DISTRIBUTE OUTSIDE OF MODERNATX, INC. WITHOUT WRITTEN PERMISSION

Generated By: Steven Anderson

Page 1 of 2

Generated Date: 23-Dec-2020

Document Number: VV-QUAL-006885 eDMS Version: 1.0 FDA-CBER-2022-1614-3815371



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

## CERTIFICATE OF ANALYSIS

|                      |                                  |                    |                |
|----------------------|----------------------------------|--------------------|----------------|
| Product Description: | CX-024414                        | Moderna Part #:    | 40074          |
| Manufacturer Name:   | Lonza Biologics Inc (Portsmouth) | Container/Closure: | Mobius (b) (4) |
| Manufacturer Lot:    | 943122                           |                    |                |
| Moderna Lot Number:  | 4007420010                       | Specification:     | SPC-1149       |
| Date of Manufacture: | 08Nov2020                        | Expiry Date:       | 07May2021      |

| Product Attribute | Method | Parameter | Specification | Result |
|-------------------|--------|-----------|---------------|--------|
|-------------------|--------|-----------|---------------|--------|

This material meets specification:      Yes

### Revision History:

1.0 - Original

CONFIDENTIAL - DO NOT DISTRIBUTE OUTSIDE OF MODERNATX, INC. WITHOUT WRITTEN PERMISSION

Generated By:      Steven Anderson

Page 2 of 2

Generated Date:      23-Dec-2020

Document Number: VV-QUAL-006885 eDMS Version: 1.0      FDA-CBER-2022-1614-3815372