

### 3.2.S.4.3 Validation of Analytical Procedures

The analytical procedures for used for release and stability testing of CX-024414 lots were confirmed as suitable for their intended use through method validation and/or qualification studies. Summaries of these studies are indexed in [Table 1](#). Reference is made to [3.2.S.4.3 {CX-024414}](#) and [3.2.P.5.3](#) and [3.2.S.4.3 {mRNA-1273 LNP}](#) sections in those instances where the validation performed for CX-024414 testing is included in the same summary as for drug product or mRNA-1273 LNP.

**Table 1: Index of Method Validation Summaries for CX-024414**

Test	Method	Section
Appearance	Visual	<a href="#">Section 3.2.P.5.3 {Appearance}</a>
Identity	RTSS	<a href="#">Section 3.2.S.4.3 {CX-024414 - Identity}</a>
Total RNA content	UV	<a href="#">Section 3.2.S.4.3 {CX-024414 - Total RNA Content}</a>
Purity	RP-HPLC	<a href="#">Section 3.2.P.5.3 {Purity and Product-Related Impurities}</a>
Product-related impurities		
% 5' Capped	UPLC-UV	<a href="#">Section 3.2.S.4.3 {CX-024414 - % 5' Capped}</a>
% PolyA tailed RNA % Tailless RNA	RP-HPLC	<a href="#">Section 3.2.S.4.3 {CX-024414 - %PolyA Tailed RNA by RP-HPLC}</a>
pH	USP <791>	<a href="#">Section 3.2.P.5.3 {pH}</a>
Bacterial Endotoxins	USP <85>, EP 2.6.14	<a href="#">Section 3.2.S.4.3 {CX-024414 - Bacterial Endotoxin}</a>
Bioburden	USP <61>, EP 2.6.12	<a href="#">Section 3.2.S.4.3 {CX-024414 - Bioburden}</a> <a href="#">Section 3.2.S.4.3 {mRNA-1273 LNP - Bioburden}</a>

Abbreviations: qPCR = quantitative polymerase chain reaction; RP-HPLC = reverse-phase high-performance liquid chromatography; UPLC-UV = ultra-performance liquid chromatography with ultraviolet detection; RTSS = reverse transcription Sanger sequencing; UV = ultraviolet