## 3.2.P.2.1 **Components of the Drug Product**

SOT Variations thereof The mRNA-1273 Injection manufacturing process consists of the dilution of the mRNA-1273 LS Lipid Nanoparticle (LNP) with a formulation buffer containing 20 mM Tris and 87 mg/mL sucrose, pH 7.5. The name, function and unit quantity of the components of mRNA-1273 Drug Product are shown in Table 1.

Table 1: Components of mRNA-1273 Injection

Component	Function	Quantity (mg/mL)
CX-024414	mRNA that encodes for the pre-fusion	Quantity (mg/mz)
021111	stabilized Spike protein of 2019-novel	0.20
	Coronavirus (SARS-CoV-2)	RIT CO
SM-102	Lipid components in the SM-102 LNP	<i>S</i>
Cholesterol (plant-based)		
1,2-distearoyl-sn-glycero-3-phosphocholine	Lipid components in the SM-102 LNP	
(DSPC)	III die Sivi-102 Eivi	
PEG2000-DMG	::Call of	
Trometamol	Buffer component	0.61
Trometamol-HCl	(Tris buffer)	2.35
Acetic Acid	Components from	0.085
Sodium Acetate	Sodium Acetate in process	
Sucrose	Cryoprotection	87
Water for injection	Medium	q.s. to 1 mL
311 20 July 20		
Water for injection  PEG2000-DMG quantity is from SM-102 LNP content Sodium acetate quantity is from buffer(s) manufactured		
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