

Report of Analysis

Report Number	RA23H003	Report Date	2023.08.04
Sample Name	mCherry mRNA-LNP	Lot Number	D23G026
Package Size	0.5 mL/tube	Manufacturing Date	2023.07.28
Sample Source	CATUG	Receiving Date	2023.07.28

Test	Method	Result
Appearance	Visual	Off-white suspension
pH	USP <791>	7.46
Osmolality	USP <785>	384 mOsmol/kg
mRNA content	HPLC	0.21 mg/mL
mRNA purity	CE	87.9 %
Lipid content	HPLC	DMG-PEG2k: 0.28 mg/mL Chol: 1.14 mg/mL SM-102: 2.81 mg/mL DSPC: 0.61 mg/mL
Lipid purity	HPLC	98.2 %
Encapsulation efficiency	Fluorescence	93.9 %
Size	DLS	63.6 nm
Polydispersity index	DLS	0.07
Endotoxin	USP <85>	17.5 EU/mL
Zeta potential	Zetasizer	-6.2 mV

Reported By/Date: Jinyao Chen August 04, 2023

Reviewed By/Date: Tengjun Huang August 04, 2023

Approved By/Date: Michael Zhang Aug. 04, 2023.

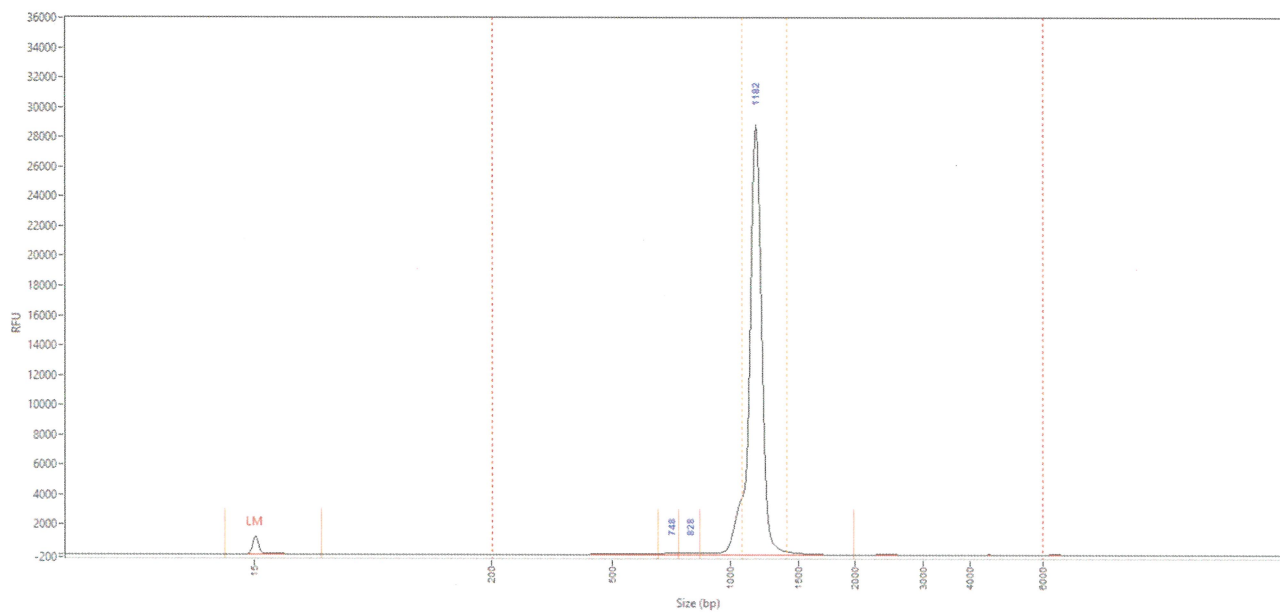
CATUG Biotechnology (Suzhou) Co., Ltd.

Website: catug.bio

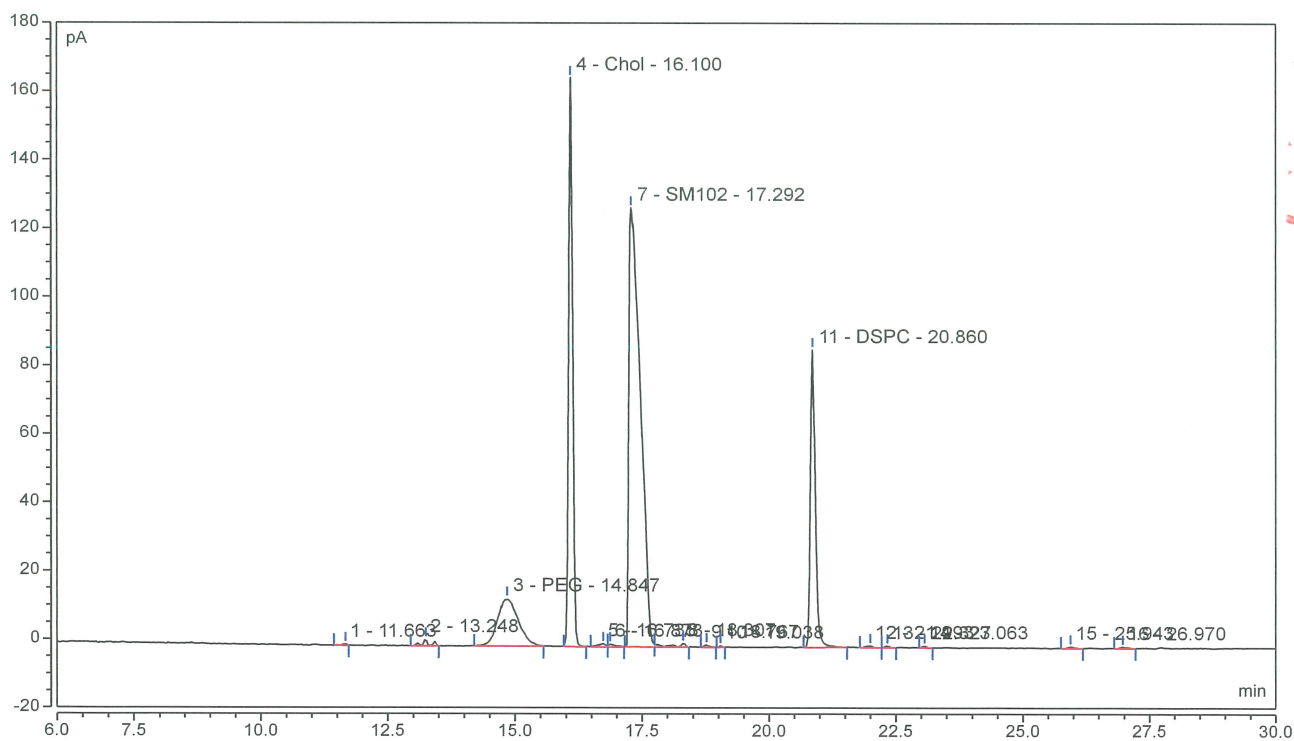
E-mail: inquiry@catugbio.com

Address: Building 4, Zone A, Biomedical Industrial Park III, No. 1 Xinze Road, Industrial Park, Suzhou, Jiangsu

mRNA purity-CE



Lipid purity-HPLC



Size-DLS

