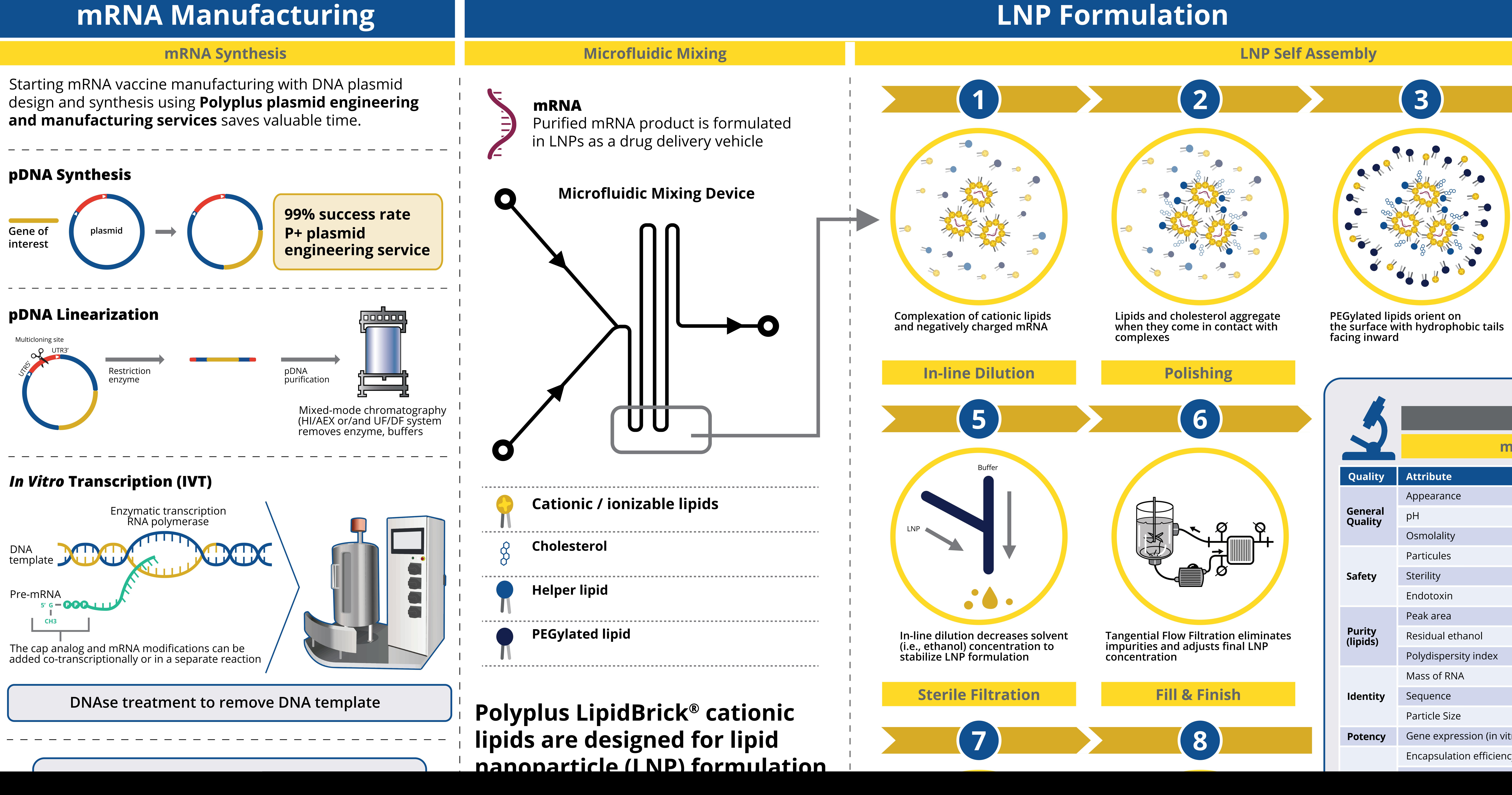
A Guide to mRNA Vaccine Production using PolyPlus LipidBrick[®] and Services



Uniform lipid nanoparticles with mRNA payload inside

	Analytics	
	mRNA Vaccine QC	
Quality	Attribute	Method
General Quality	Appearance	USP <1>, <790> / Ph.Eur.2.2.1/2.2.2
	pН	USP<791> / Ph.Eur.2.2.3
	Osmolality	USP<785> / Ph.Eur.2.2.35
Safety	Particules	USP<790> / Ph.Eur.2.9.20
	Sterility	USP<71> / Ph.Eur.2.6.1
	Endotoxin	USP<85> / Ph.Eur.2.6.14
Purity (lipids)	Peak area	HPLC
	Residual ethanol	USP <467>
	Polydispersity index	DLS
Identity	Mass of RNA	Mass spectrometry
	Sequence	RT sequencing
	Particle Size	Gel electrophoresis
Potency	Gene expression (in vitro)	Depends on GOI
	Encapsulation efficiency	qPCR