



Materials Sheets



Materials	Supplier
All staple strands, Linker-DNA strands	IDT (Iowa, USA)
FAM-modified DNA strands	Eurofins Genomics (Ebersberg, Germany)
Single-stranded M13mp18 viral DNA	Tilibit Nanosystems (Garching, Germany) via Eurofins
MgCl ₂ , glucose	Kishida Chemical (Osaka, Japan)
sorbitol	Kishida Chemical (Osaka, Japan)
TAE	Sigma-Aldrich (Merck, Massachusetts, USA)
EDTA	Kanto Chemical (Tokyo, Japan)
KCl	Nakalai Tesque (Kyoto, Japan)
POPC	NOF Corporation (Tokyo, Japan)
POPG	Avanti Polar Lipids (Alabama, USA)
DOTAP	Avanti Polar Lipids (Alabama, USA)
Cholesterol	FujiFilm Wako Pure Chemical Corporation (Osaka, Japan)
Ultrapure water (resistivity 18.2 MΩ cm)	Direct-Q UV3 (Merck Millipore, Merck, Massachusetts, USA)
AMCA-modified DNA	Sangon Biotech (Shanghai, China) / Generay Biotech (Shanghai, China)
trehalose	Kishida Chemical (Osaka, Japan)
Rhod PE	Sigma-Aldrich (Merck, Massachusetts, USA)
NBD-PE	Thermo Fisher Scientific (California, USA)
heavy mineral oil	Sigma-Aldrich (Merck, Massachusetts, USA)
FAM	Sigma-Aldrich (Merck, Massachusetts, USA)
BSA	Sigma-Aldrich (Merck, Massachusetts, USA)
SYBR Gold	Thermo Fisher Scientific (California, USA)
Agarose S	Nippon Gene (Tokyo, Japan)
Loading buffer	Takara Bio (Shiga, Japan)