

DATA SHEET

Sequencing Analytical Services



AVAILABLE AT:



www.breakthroughmedicines.com
www.skpharmteco.com

CURRENT OFFERINGS

- Sequencing services for CGT modalities (e.g., plasmids, AAV, adenovirus, IVT RNA)
- Deep resequencing of plasmids and viral vectors
- Platform and client-specific sequencing assay development
- "Gold standard" Sanger sequencing
- Sanger sequencing of difficult templates and high-quality cis-plasmid AAV ITR sequencing
- Illumina genetic identity (variant analysis) of plasmids and viral vectors
- PacBio genetic identity (variant analysis) of plasmids and viral vectors
- Integration of various sequencing approaches for comprehensive drug product characterization

KEY DIFFERENTIATORS

- GMP-compliant laboratories with directional personnel flow
- Physical separation of pre-PCR and post-PCR sequencing processes
- Dedicated BSCs for highly sensitive procedures
- Broad expertise in NGS and Sanger sequencing of multiple CGT modalities
- Full integration with Analytical, R&D, and Manufacturing groups

STATE-OF-THE-ART EQUIPMENT

Type	Manufacturer	Model
Sanger sequencing	Thermo Fisher	SeqStudio 8
Short-read sequencing	Illumina	NextSeq 2000
Short-read sequencing	Illumina	MiSeq
Long-read sequencing	PacBio	Sequel II
Spectrophotometry	Thermo Fisher	Nanodrop One C
Fluorometry	DeNovix	DS-11
Fragment analysis	Agilent	TapeStation 4200
DNA sizing	Sage Science	Blue Pippin
Gel electrophoresis	Thermo Fisher	Power Snap
Real-Time PCR	Thermo Fisher	QuantStudio 5
Digital PCR	Qiagen	QIAcuity
PCR	Eppendorf	MasterCycler (various)

