



Yeast Cell Bank Development Testing

Critical Quality Attributes	Assay	Description
Characterization	Southern Blot- Clone Screening	Screen clones for number of unique genomic integrations
Identity	Sequencing – Sanger	Confirm full or partial yeast sequence by Sanger sequencing
	Sequencing – NGS	Confirm full or partial yeast sequence by NGS

Yeast Cell Bank Release Testing

Critical Quality Attributes	Assay	Description
Identity	Sequencing – Sanger	Confirm full or partial yeast sequence by Sanger sequencing
	Sequencing – NGS	Confirm full or partial yeast sequence by NGS
Content	Southern Blot- Integration Site analysis	Determine number of integration sites within cell bank and stability over time
	Integrated Gene Copy Number Analysis	Determine number of integrated copies of transgene per cell by QPCR or ddPCR
	Plasmid Copy Number Analysis	Determine number of episomal copies of transgene per cell by QPCR or ddPCR
	Marker Retention	Determine percentage of cells capable of maintaining selectable marker/plasmid
	Inserted Gene Sequence Confirmation	Confirm full or partial yeast sequence by Sanger sequencing
Purity	Sterility Testing	Confirm sterility of cell bank