

CRITERIOS DE SQC (2025-02-19) - V2

Meta amplicon primer

Target Region	Sequence_FWD	Sequence_REV	Regions
16S V3-V4	CCTACGGGNGGCWGCAG	GACTACHVGGGTATCTAATCC	Bacteria
16S V1-V2	GAGTTTGATCMTGGCTCAG	GCTGCCTCCCGTAGGAGT	
ITS1-ITS2 (ITS1)	CTTGGTCATTTAGAGGAAGTAA	GCTGCGTTCTTCATCGATGC	Fungi
ITS3-ITS4 (ITS2)	GCATCGATGAAGAACGCAGC	TCCTCCGCTTATTGATATGC	
18S V4F-V4R	CCAGCAGCCGCGTAATTCC	ACTTTCGTTCTTGATTA	Eukaryotes
18S V9F-V9R	CCCTGCCHTTTGACACAC	CCTTCYGCAGGTTACCTAC	
Arc 21F-516R	TCCGGTTGATCCYGCCGG	GGTDTTACCGCGCKGCTG	Archaea
Arc 787F-1059R	ATTAGATACCCSBGTAGTCC	GCCATGCACCWCCTCT	
COI UEA3F-HCO2198R	TATAGCATTCCCACGAATAAATAA	TAAACTTCAGGGTGACCAAAAAATCA	Species identification\n(Animal)
COI mICOIintF-HCO2198R	GGWACWGGWTGAACWGTWTAYCCYCC	TAAACTTCAGGGTGACCAAAAAATCA	

RNA Criteria

LIB TYPE	LIB KIT	TYPE	CONC.(ng/ul)	VOL. (ul)	TOTAL AMT. (ug)	RIN	rRNA RATIO	DV200(%)	VIABILITY(%)	ETC
Amplicon DNA library	Metagenome Amplicon	Total RNA	1.0							Conc > 1ng/ul
Amplicon DNA library	Metagenome Amplicon (for cDNA)	Total RNA			0.1					
mRNA library	TruSeq stranded mRNA	Total RNA			1.0	7.0	1.0			
mRNA library	TruSeq stranded mRNA	mRNA			0.1					
mRNA library	TruSeq RNA Access	FFPE RNA			0.2			50.0		DV200(%)>=50 : Hold

LIB TYPE	LIB KIT	TYPE	CONC.(ng/ul)	VOL.(ul)	TOTAL AMT.(ug)	RIN	rRNA RATIO	DV200(%)	VIABILITY(%)	ETC
mRNA library	TruSeq RNA Access	Total RNA			0.1			50.0		DV200(>=50 : Hold
mRNA library	SureSelect RNA Direct_Human	FFPE RNA			0.2			50.0		DV200(>=50 : Hold
mRNA library	SureSelect RNA Direct_Human	Total RNA			0.1			50.0		DV200(>=50 : Hold
mRNA library	SureSelect RNA Direct_Mouse	FFPE RNA			0.2			50.0		DV200(>=50 : Hold
mRNA library	SureSelect RNA Direct_Mouse	Total RNA			0.1			50.0		DV200(>=50 : Hold
mRNA library	Truseq Nano DNA (for cDNA)	cDNA			0.1					
mRNA library	Nextera DNA XT (for cDNA)	cDNA			0.001					
mRNA library	SMARTer Stranded RNA library (PolyA)	Total RNA			0.1	7.0	1.0			
mRNA library	SMARTer Ultra low input RNA library (PolyA_NexteraXT)	Total RNA			0.01	7.0	1.0			
mRNA library	SureSelect HS2 RNA	FFPE RNA			0.2			50.0		DV200(>=50 : Hold
mRNA library	SureSelect HS2 RNA	Total RNA			0.1			50.0		DV200(>=50 : Hold
Small RNA library	SMARTer Small RNA library	Total RNA			0.01	7.0	1.0			
Small RNA library	SMARTer Small RNA library	small RNA			0.01					
Small RNA library	SMARTer Small RNA library	exosomal RNA			0.01					
Small RNA library	NEBNext Small RNA library	Total RNA			1.0	7.0	1.0			
Small RNA library	NEBNext Small RNA library	small RNA			0.1					
Small RNA library	NEBNext Small RNA library	exosomal RNA			0.01					
Small RNA library	TruSeq Small RNA library	Total RNA			3.0	7.0	1.0			

LIB TYPE	LIB KIT	TYPE	CONC.(ng/ul)	VOL.(ul)	TOTAL AMT.(ug)	RIN	rRNA RATIO	DV200(%)	VIABILITY(%)	ETC
Small RNA library	TruSeq Small RNA library	small RNA			0.1					
Small RNA library	TruSeq Small RNA library	exosomal RNA			0.01					
Total RNA library	TruSeq Stranded Total RNA with Ribo-Zero H/M/R	Total RNA			0.5	7.0	1.0			
Total RNA library	TruSeq Stranded Total RNA with Ribo-Zero H/M/R_Gold	Total RNA			0.5	7.0	1.0			
Total RNA library	TruSeq Stranded Total RNA with Ribo-Zero H/M/R_Globin	Total RNA			0.5	7.0	1.0			
Total RNA library	TruSeq Stranded Total RNA with Ribo-Zero Plant	Total RNA			0.5	7.0	1.0			
Total RNA library	TruSeq Stranded Total RNA (NEB Microbe)	Total RNA			1.0	7.0	1.0			
Total RNA library	SMARTer Stranded RNA library (Ribo-Zero)	Total RNA			0.1	7.0	1.0			
Total RNA library	TruSeq Stranded Total RNA (No rRNA Depletion)	Total RNA			0.1					
Total RNA library	TruSeq Stranded Total RNA (No rRNA Depletion)	mRNA			0.1					
Total RNA library	TruSeq Stranded Total RNA (No rRNA Depletion)	exosomal RNA			0.01					
Total RNA library	Illumina Stranded Total RNA (Ribo-Zero Plus_META)	Total RNA			0.2			50.0		DV200(%)>=50 : Hold
Total RNA library	Illumina Stranded Total RNA (Ribo-Zero Plus)	Total RNA			0.5	7.0	1.0			
Long Read Library	ONT RNA Library-cDNA	Total RNA			0.5	7.0				
Long Read Library	[3.0] PacBio Iso-Seq Library	Total RNA			0.3	7.0				
Long Read Library	[3.0] PacBio Kinnex full-length RNA Library	Total RNA			0.3	7.0				
Long Read Library	[3.0] PacBio Kinnex single-cell RNA Library	cDNA			0.075					

DNA Criteria

LIB TYPE	LIB KIT	CONC. (ng/ul)	VOL. (ul)	TOTAL AMT.(ug)	DIN	cfDNA(%)	Avg. Size(BP)	VIABILITY(%)	Purity (260/280)	Purity (260/230)	ETC
Amplicon DNA library	Metagenome Amplicon (for cDNA)	10.0		0.1							Conc > 10ng/ul
Amplicon DNA library	Metagenome Amplicon	0.1									Conc > 0.1ng/ul
Amplicon DNA library	target amplicon DNA	0.1									Conc > 0.1ng/ul
Targeted DNA library	SureSelect V6-Post			0.5	7.0						
Targeted DNA library	SureSelect V6+UTR-post			0.5	7.0						
Targeted DNA library	SureSelect V6+COSMIC-post			0.5	7.0						
Targeted DNA library	SureSelect V5-post			0.5	7.0						
Targeted DNA library	SureSelect V5+UTR-post			0.5	7.0						
Targeted DNA library	SureSelect V4-post			0.5	7.0						
Targeted DNA library	SureSelect V4+UTR-post			0.5	7.0						
Targeted DNA library	SureSelect Mouse			0.5	7.0						
Targeted DNA library	SureSelect Human Methyl-seq			3.0	7.0						
Targeted DNA library	SureSelect Mouse Methyl-seq			3.0	7.0						
Targeted DNA library	SureSelect Custom			0.5	7.0						
	MBD enriched library			1.0	7.0						

LIB TYPE	LIB KIT	CONC. (ng/ul)	VOL. (ul)	TOTAL AMT.(ug)	DIN	cfDNA(%)	Avg. Size(BP)	VIABILITY(%)	Purity (260/280)	Purity (260/230)	ETC
Targeted DNA library											
Targeted DNA library	SureSelect V7-Post			0.5	7.0						
Targeted DNA library	Twist Human Core Exome (+RefSeq)			0.05	7.0						
Targeted DNA library	Twist Human Core Exome			0.05	7.0						
Targeted DNA library	Twist Custom			0.05	7.0						
Targeted DNA library	SureSelect Custom2 (Tier1 16R)			0.5	7.0						
Targeted DNA library	SureSelect Custom2 (Tier1 16R) (FFPE)			0.2							
Targeted DNA library	SureSelect Custom2 (Tier1 16R) (cfDNA)			0.02		80.0					
Targeted DNA library	SureSelect Custom3 (Tier1 96R)			0.5	7.0						
Targeted DNA library	SureSelect Custom3 (Tier1 96R) (FFPE)			0.2							
Targeted DNA library	SureSelect Custom3 (Tier1 96R) (cfDNA)			0.02		80.0					
Targeted DNA library	SureSelect V8-Post			0.5	7.0						
Targeted DNA library	SureSelect V8-Post(FFPE)			0.2							
Targeted DNA library	SureSelect V8-Post(cfDNA)			0.02		80.0					
Targeted DNA library	Twist Human Core Exome 2.0			0.05	7.0						
				0.05	7.0						

LIB TYPE	LIB KIT	CONC. (ng/ul)	VOL. (ul)	TOTAL AMT.(ug)	DIN	cfDNA(%)	Avg. Size(BP)	VIABILITY(%)	Purity (260/280)	Purity (260/230)	ETC
Targeted DNA library	Twist Human Core Exome (+RefSeq +MT)										
Targeted DNA library	SureSelect V6-Post_HS UMI			0.1	7.0						
Targeted DNA library	SureSelect V6+UTR-post_HS UMI			0.1	7.0						
Targeted DNA library	SureSelect V7-Post_HS UMI			0.1	7.0						
Targeted DNA library	SureSelect V8-Post_HS UMI			0.1	7.0						
Targeted DNA library	myBaits Angiosperm capture (+Twist library)			0.05	7.0						
Targeted DNA library	SureSelect V8+UTR-Post			0.5	7.0						
Targeted DNA library	SureSelect V8+UTR-Post(FFPE)			0.2							
Targeted DNA library	SureSelect V8+UTR-Post(cfDNA)			0.02		80.0					
Targeted DNA library	Twist Human Methylome panel			0.2	7.0						
Targeted DNA library	SureSelect V4-Post(FFPE)			0.2							
Targeted DNA library	SureSelect V4-Post(cfDNA)			0.02		80.0					
Targeted DNA library	SureSelect V4+UTR-post(FFPE)			0.2							
Targeted DNA library	SureSelect V4+UTR-post(cfDNA)			0.02		80.0					
Targeted DNA library	SureSelect V5-Post(FFPE)			0.2							
	SureSelect V5-Post(cfDNA)			0.02		80.0					

LIB TYPE	LIB KIT	CONC. (ng/ul)	VOL. (ul)	TOTAL AMT.(ug)	DIN	cfDNA(%)	Avg. Size(BP)	VIABILITY(%)	Purity (260/280)	Purity (260/230)	ETC
Targeted DNA library											
Targeted DNA library	SureSelect V5+UTR-post(FFPE)			0.2							
Targeted DNA library	SureSelect V5+UTR-post(cfDNA)			0.02		80.0					
Targeted DNA library	SureSelect V6-Post(FFPE)			0.2							
Targeted DNA library	SureSelect V6-Post(cfDNA)			0.02		80.0					
Targeted DNA library	SureSelect V6+UTR-post(FFPE)			0.2							
Targeted DNA library	SureSelect V6+UTR-post(cfDNA)			0.02		80.0					
Targeted DNA library	SureSelect V7-Post(FFPE)			0.2							
Targeted DNA library	SureSelect V7-Post(cfDNA)			0.02		80.0					
Targeted DNA library	SureSelect Mouse(FFPE)			0.2							
Targeted DNA library	SureSelect Mouse(cfDNA)			0.02		80.0					
Targeted DNA library	SureSelect Custom(FFPE)			0.2							
Targeted DNA library	SureSelect Custom(cfDNA)			0.02		80.0					
Targeted DNA library	SureSelect V6+COSMIC-post(FFPE)			0.2							
Targeted DNA library	SureSelect V6+COSMIC-post(cfDNA)			0.02		80.0					
	Twist Human Core Exome(FFPE)			0.05							

LIB TYPE	LIB KIT	CONC. (ng/ul)	VOL. (ul)	TOTAL AMT.(ug)	DIN	cfDNA(%)	Avg. Size(BP)	VIABILITY(%)	Purity (260/280)	Purity (260/230)	ETC
Targeted DNA library											
Targeted DNA library	Twist Custom(FFPE)			0.05							
Targeted DNA library	Twist Human Core Exome (+RefSeq)(FFPE)			0.05							
Targeted DNA library	Twist Human Core Exome (+RefSeq +MT)(FFPE)			0.05							
Targeted DNA library	Twist Human Core Exome 2.0(FFPE)			0.05							
Whole Genome library	TruSeq Nano DNA (350)			0.1	7.0						
Whole Genome library	TruSeq Nano DNA (550)			0.2	7.0						
Whole Genome library	TruSeq Nano DNA (LMW)			0.1	7.0						
Whole Genome library	TruSeq DNA PCR Free (350)			1.0	7.0						
Whole Genome library	TruSeq DNA PCR Free (550)			2.0	7.0						
Whole Genome library	Nextera DNA XT			0.001	7.0						
Whole Genome library	Accel Methyl-Seq DNA library			0.2	7.0						
Whole Genome library	TruSeq ChIP-seq library			0.01							

LIB TYPE	LIB KIT	CONC. (ng/ul)	VOL. (ul)	TOTAL AMT.(ug)	DIN	cfDNA(%)	Avg. Size(BP)	VIABILITY(%)	Purity (260/280)	Purity (260/230)	ETC
Whole Genome library	mt DNA			0.1	7.0						
Whole Genome library	Accel-NGS 1S PCR-plus			0.1							
Whole Genome library	bulk ATAC library							70.0			
Whole Genome library	TruSeq Nano DNA (250)			0.1	7.0						
Whole Genome library	TruSeq Nano DNA (450)			0.2	7.0						
Whole Genome library	PCR free LMW			1.0	7.0						
Whole Genome library	Chromium Next GEM Single Cell Multiome ATAC library v1							70.0			
Whole Genome library	Chromium Next GEM Single Cell ATAC library v1.1							70.0			
Whole Genome library	TruSeq Nano DNA (350_META)			0.1	3.0						
Whole Genome library	TruSeq DNA PCR Free (350_META)			1.0	3.0						
Whole Genome library	TruSeq Nano DNA (550_META)			0.2	3.0						
	Nextera DNA XT (META)			0.001	3.0						

LIB TYPE	LIB KIT	CONC. (ng/ul)	VOL. (ul)	TOTAL AMT.(ug)	DIN	cfDNA(%)	Avg. Size(BP)	VIABILITY(%)	Purity (260/280)	Purity (260/230)	ETC
Whole Genome library											
Whole Genome library	Illumina DNA Library			0.05	7.0						
Whole Genome library	Illumina DNA PCR-Free			0.5	7.0						
Whole Genome library	NEB Enzymatic Methyl-seq library			0.2	7.0						
Whole Genome library	xGen cfDNA FFPE DNA library (for cfDNA)			0.01		70.0					
Whole Genome library	xGen cfDNA FFPE DNA library (for FFPE)			0.1							
Whole Genome library	MGIEasy PCR-Free			1.0	7.0						
Whole Genome library	Ultima TruSeq PCR free library			1.0	7.0						
Whole Genome library	Chromium Genome library v2			1.0	7.0						
Long Read Library	ONT-LSK-114			6.0			30000.0				
Long Read Library	ONT Pore-C Library (except plant)			1.0							
Long Read Library	[3.0] PacBio Microbial Library			3.1			15000.0				
	[3.0] PacBio HiFi Library			5.1			30000.0		1.8	2.0	

LIB TYPE	LIB KIT	CONC. (ng/ul)	VOL. (ul)	TOTAL AMT.(ug)	DIN	cfDNA(%)	Avg. Size(BP)	VIABILITY(%)	Purity (260/280)	Purity (260/230)	ETC
Long Read Library											[Purity] 260/280: 1.8~2.0, 260/230: >= 2.0
Long Read Library	[3.0] PacBio Amplicon Library			0.5							AAV: Total >1ug
Long Read Library	[3.0] PacBio 16s full-length Library	0.1									Conc > 0.1ng/ul
Long Read Library	[3.0] PacBio MetaShotgun Library			4.1			12000.0				
Long Read Library	[3.0] PacBio Kinnex 16S rRNA amplicons Library	0.1									Conc > 0.1ng/ul
Long Read Library	[3.0] PacBio HLA Library	15.0		0.1							Conc > 15ng/ul
Long Read Library	Plasmid library construction	6.0	15.0	90.0							

Documento actualizado - Criterios de Control de Calidad de Secuenciación (Versión sin LRS)