NGS sample specifications - WGS

	Library Type	Sample Type	Input	Volume	Amount
WGS	TruSeq DNA Nano	gDNA (double-stranded)	OD$_{260/280}$ ≥ 1,8 concentration ≥ 20 ng/µl ≤ 200 ng/µl (based on Qubit)	in ≥ 15 µl TE-Buffer (max. 50 µl)	at least 300 ng in 15 µl
	Illumina DNA prep	gDNA (double-stranded)	OD$_{260/280}$ ≥ 1,8 concentration ≥ 1 ng/µl ≤ 200 ng/µl (based on Qubit)	in ≥ 10µl TE-Buffer (max. 55µl)	at least 5 ng in 10µl
	Illumina DNA PCR-Free	gDNA (double-stranded)	OD$_{260/280}$ ≥ 1,8 concentration ≥ 5 ng/µl ≤ 200 ng/µl (based on Qubit)	in ≥ 10µl TE-Buffer (max. 55µl)	At least 50 ng in 10 µl
	Sequel II SMRTBell HIFI	gDNA (double-stranded – *high molecular weigth*)	OD$_{260/280}$ ≥ 1,8 concentration ≥ 100 ng/µl ≤ 500 ng/µl (based on Qubit)	in ≥ 20 µl TE-Buffer (max. 40 µl)	at least 1.5 µg/Gb haploid genome in 20 µl
	Sequel SMRTBell microbial multiplexed genomes	gDNA (double-stranded – *high molecular weigth*)	OD$_{260/280}$ ≥ 1,8 concentration ≥ 100 ng/µl ≤ 500 ng/µl (based on Qubit)	in ≥ 20 µl TE-Buffer (max. 40 µl)	at least 1 µg in 20 µl