NGS sample specifications – transcriptome sequencing

	Library Type	Sample Type	Input	Volume	Amount
RNA libraries	TruSeq stranded RNA	total RNA	DNA free pure ($OD_{260/280}$ ≥ 1,8) RIN (Agilent Bioanalyzer 2100) ≥ 8 **concentration ≥ 40 ng/µl ≤ 200ng/µl** (based on Qubit)	in ≥ 15 µl TE-Buffer (max. 30 µl)	at least 600 ng in 15µl
		mRNA	DNA free pure ($OD_{260/280}$ ≥ 1,8) RIN (Agilent Bioanalyzer 2100) ≥ 8 **concentration ≥ 40 ng/µl ≤ 200ng/µl** (based on Qubit)	in ≥ 15 µl TE-Buffer (max. 50 µl)	at least 600 ng in 15µl
	Illumina stranded RNA	Total RNA with RiboZero plus (H/M/R + bacteria)	DNA free pure ($OD_{260/280}$ ≥ 1,8) RIN (Agilent Bioanalyzer 2100) ≥ 8 **concentration ≥ 10 ng/µl ≤ 200ng/µl** (based on Qubit)	in ≥ 15 µl TE-Buffer (max. 30 µl)	at least 150 ng in 15µl
		mRNA	DNA free pure ($OD_{260/280}$ ≥ 1,8) RIN (Agilent Bioanalyzer 2100) ≥ 8 **concentration ≥ 2 ng/µl ≤ 200ng/µl** (based on Qubit)	in ≥ 15 µl TE-Buffer (max. 30 µl)	at least 30 ng in 15µl
	NextFlex smallRNA	total RNA	DNA free pure ($OD_{260/280}$ ≥ 1,8) RIN (Agilent Bioanalyzer 2100) ≥ 8 **concentration ≥ 0.5 ng/µl** (based on Qubit)	in 15 µl TE-Buffer	at least 7.5 ng in 15 µl
		micro RNA	DNA free pure ($OD_{260/280}$ ≥ 1,8) **Amount ≥ micro RNA fraction of ≥ 1,2 µg total RNA** (based on Qubit)	in 15 µl TE-Buffer	-
	PacBio IsoSeq	total RNA	DNA free pure ($OD_{260/280}$ ≥ 1,8) RIN (Agilent Bioanalyzer 2100) ≥ 8 **concentration ≥ 150 ng/µl ≤ 400ng/µl** (based on Qubit)	in ≥ 10 µl Tris Buffer or nuclease free water	at least 800 ng in 10 µl