

## Quality Control Report for Activity Calculation Step

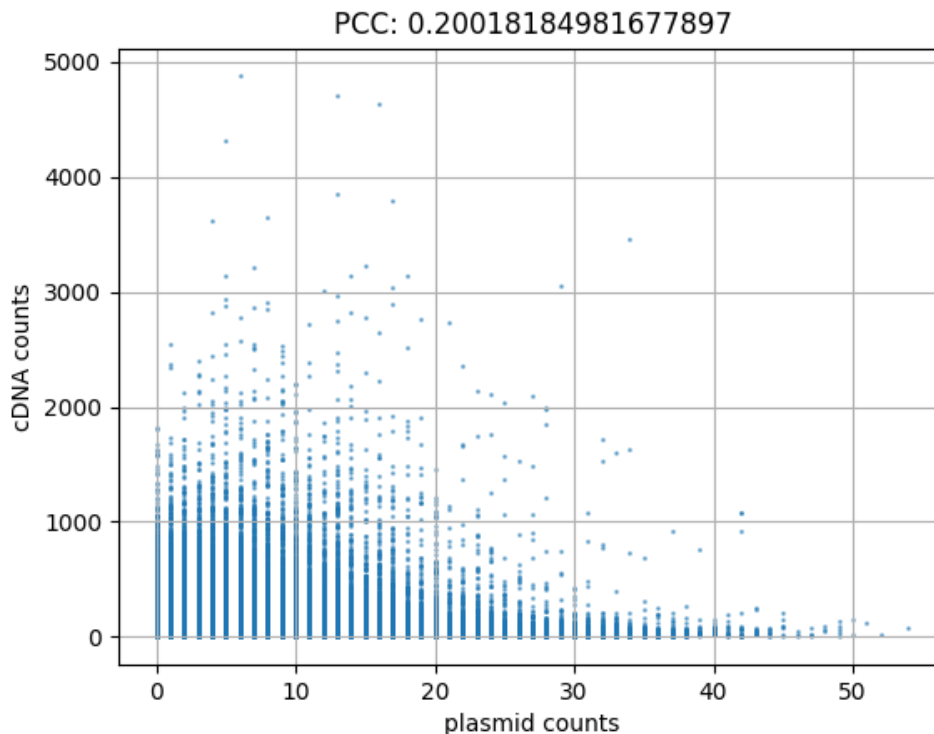
Metric Name	Experimental Value	Reference Range	Risk Level
qualified_oligo_num	54940.00	-	-
qualified_oligo_ratio	0.46	-	-
PCC_between_plasmid_cDNA	0.20	$\leq 0.35$	checked OK

Reference Explanation for Quality Control Results:

**qualified\_oligo\_num:** The number of oligos linked with a sufficient number (default value: 3) of barcodes that appear at least the specified number of times (default value: 1) in both plasmid and cDNA sequencing.

**qualified\_oligo\_ratio:** The ratio of oligos linked with a sufficient number (default value: 3) of barcodes that appear at least the specified number of times (default value: 1) in both plasmid and cDNA sequencing.

**PCC\_between\_plasmid\_cDNA:** The correlation between the counts of the same barcode detected in plasmid and cDNA sequencing. A high correlation value may indicate that the original plasmid DNA was not effectively removed during cDNA sequencing after reverse transcription. It is recommended to check whether the steps for removing plasmid DNA were effectively performed.



**Distribution of barcode counts in plasmid and cDNA sequencing:** The x-axis and y-axis show the counts of the same barcode in plasmid and cDNA sequencing. A significant correlation suggests that plasmid DNA was not effectively removed during cDNA sequencing. Check the plasmid DNA removal steps if this happens.