

Compaction of rolling circle amplification products increases signal integrity and signal-to-noise ratio

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Supplementary information

Supplementary Table S1: Although absolute values of intensity (a) and SNR (b) are affected by changing the disk radii (from 3 pixel inner radius and 7 pixel outer radius to 5 pixel inner radius and 12 pixel outer radius) the outcome of the three replicates, named No1-3 (i.e. compacted RCPs are brighter and have a higher SNR than regular RCPs) is not affected.

a

Replicate	Average, compacted RCP (a.u.)	SD, compacted RCP (a.u.)	Average, regular RCP (a.u.)	SD, regular RCP (a.u.)	P value (Mann Whitney U)
No 1 (3,7)	21.9	11.8	11.4	6.3	p<0.001
No 1(5,12)	23.1	11.8	13.3	7.8	p<0.001
No 2(3,7)	20.7	11.4	10.5	5.6	p<0.001
No 2(5,12)	22.3	11.4	13.1	7.7	p<0.001
No 3(3,7)	20.2	10.7	11.2	6.2	p<0.001
No 3(5,12)	23.1	11.8	13.3	7.8	p<0.001

b

Replicate	Average, compacted RCP (dB)	SD, compacted RCP (dB)	Average, regular RCP (dB)	SD, regular RCP (dB)	P value (Mann Whitney U)
No 1 (3,7)	14.8	1.9	11.2	3.0	p<0.001
No 1(5,12)	18.0	2.2	12.7	3.9	p<0.001
No 2(3,7)	14.6	2.0	10.6	3.0	p<0.001
No 2(5,12)	17.5	2.7	11.6	3.8	p<0.001
No 3(3,7)	14.5	2.0	11.0	3.1	p<0.001
No 3(5,12)	17.4	2.6	12.5	4.0	p<0.001