

Supporting Information File 3

for

Real-time monitoring of calcium carbonate and cationic peptide deposition on carboxylate-SAM using a microfluidic SAW biosensor

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**Monitoring cationic peptides ES9 and AS8 on COO-SAM,
experimental values, Table S5**

Comparative evaluation of the phase signal [°] for the two peptides. The phase signal was continuously recorded for each measurement (3 replicates for each peptide at 3 pH values) and the difference between the phase value at the beginning of the peptide injection ($t < 0$ s, i.e. "-10 s") and after the peptide injection ($t = 310$ s) was calculated using the Origin 8.6 software package.

Table S5: Phase signal difference in [deg] (3 measurements, see e.g. Figure 6).

Measurement	Peptide	pH 7.75	pH 8.2	pH 9.0
1	AS8	0.14	0.05	0.05
2	AS8	0.30	0.41	0.19
3	AS8	0.24	0.24	0.06
Average	AS8	0.23 ± 0.082	0.23 ± 0.182	0.10 ± 0.077
1	ES9	0.09	0.04	0.05
2	ES9	0.12	0.11	0.08
3	ES9	0.09	0.08	0.03
Average	ES9	0.10 ± 0.018	0.08 ± 0.036	0.05 ± 0.027