

Electronic Supporting Information for the paper:

**“Smart tailoring of the surface chemistry in hybrid organic-inorganic films”**

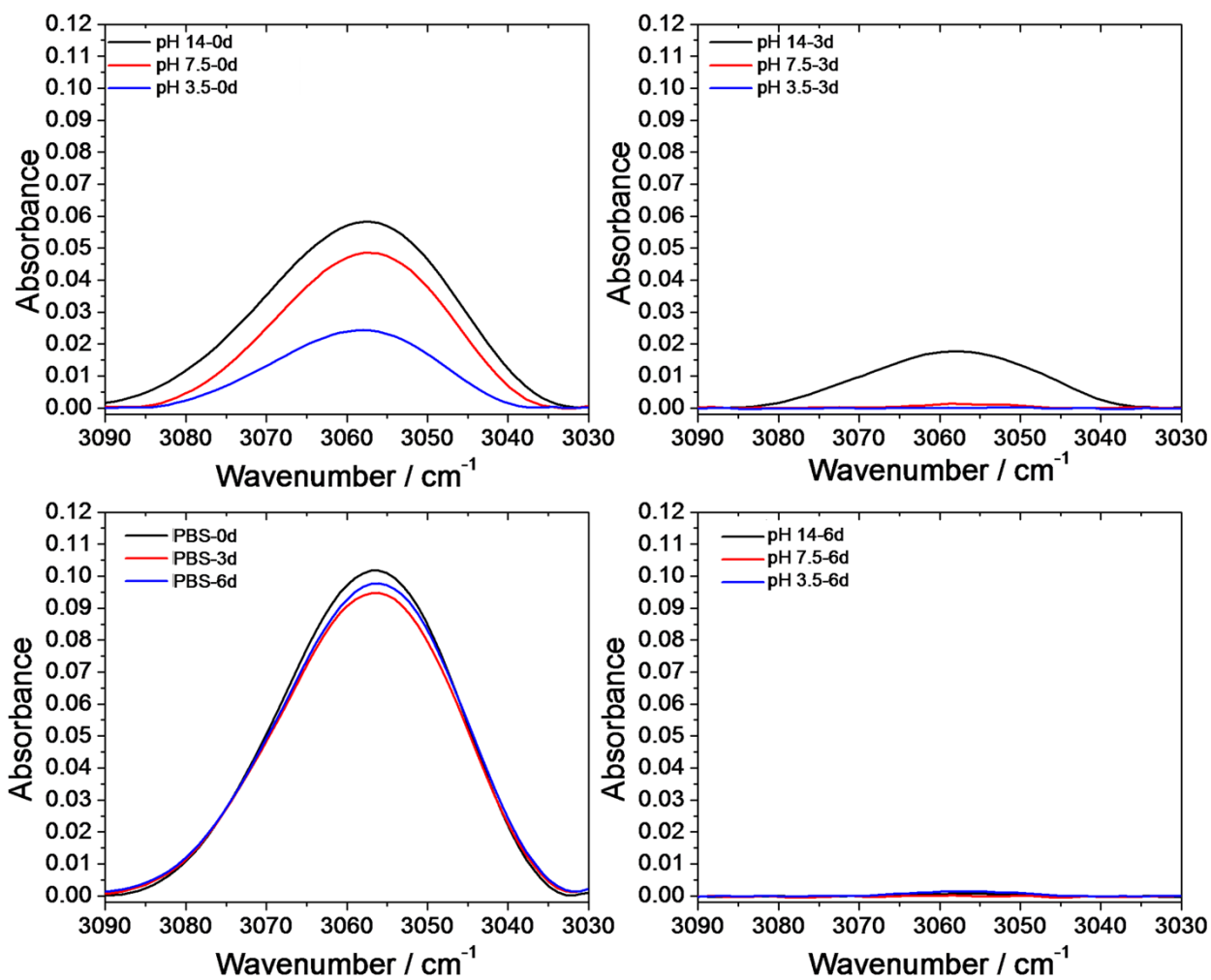
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| <b>Epoxide Normalised Absorbance</b> |              |               |               |
|--------------------------------------|--------------|---------------|---------------|
| <b>Samples</b>                       | <b>0 day</b> | <b>3 days</b> | <b>6 days</b> |
| <b>PBS</b>                           | 0.1017       | 0.0977        | 0.0947        |
| <b>pH 14</b>                         | 0.0582       | 0.0177        | 0.0006        |
| <b>pH 7.5</b>                        | 0.0486       | 0.0013        | 0.0000        |
| <b>pH 3.5</b>                        | 0.0242       | 0.0000        | 0.0000        |

**Table S1.** Absorbances of the epoxide band at 3057  $\text{cm}^{-1}$ , normalised on the absorbance of the  $\text{CH}_2$  stretching at 2937  $\text{cm}^{-1}$ .

| <b>Hydroxyl Normalised Absorbance</b> |              |               |               |
|---------------------------------------|--------------|---------------|---------------|
| <b>Samples</b>                        | <b>0 day</b> | <b>3 days</b> | <b>6 days</b> |
| <b>PBS</b>                            | 0.1393       | 0.1794        | 0.1765        |
| <b>pH 14</b>                          | 0.4905       | 1.0476        | 1.1493        |
| <b>pH 7.5</b>                         | 0.5909       | 1.5107        | 1.5108        |
| <b>pH 3.5</b>                         | 0.9773       | 1.2843        | 1.2735        |

**Table S2.** Absorbances of the epoxide band at 3400  $\text{cm}^{-1}$ , normalised on the absorbance of the  $\text{CH}_2$  stretching at 2937  $\text{cm}^{-1}$ .



**Figure S1.** Absorbances of the epoxide band at 3057 cm<sup>-1</sup>, normalised on the absorbance of the CH<sub>2</sub> stretching at 2937 cm<sup>-1</sup> as a function of the aging time and pH.