**Supplementary information**

**Visualization of Bacterial Colonization and Cellular Layers in a Gut-on-a-chip System Using Optical Coherence Tomography**

Lu Yuan1, Pim de Haan2,3, Brandon W. Peterson1, Ed D. de Jong1, Elisabeth Verpoorte2, Henny C. van der Mei1\* and Henk J. Busscher1

*1 University of Groningen, University Medical Center Groningen, Department of Biomedical Engineering, 9713 AV Groningen, The Netherlands.*

*2 University of Groningen, Groningen Research Institute of Pharmacy, Pharmaceutical Analysis, 9713 AV Groningen, The Netherlands.*

*3 TI-COAST, 1098 XH Amsterdam, The Netherlands.*

\* Corresponding author

Henny C. van der Mei

Biomedical Engineering, University Medical center Groningen

Antonius Deusinglaan 1, 9713 AV Groningen, The Netherlands

[h.c.van.der.mei@umcg.nl](mailto:h.c.van.der.mei@umcg.nl)

tel. +31 50 3616096

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**Fig. S1.** Phase-contrast microscope image of an intestinal epithelial Caco-2 BBe1 cell layer (top-view), grown for 3 days on a PTFE membrane in a microfluidic device (see Figure 1). Note that villi have not yet developed.