SUPPORTING INFORMATION.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table S1.** TiO2 concentrations for corresponding retinal layers in PDMS phantom. | | | | | | | | |
| *Layer Number* | 1 | 2 | 3 | | 4 | 5 | 6 | 7 |
| *Anatomical*  *Retinal Layer* | BM RPE IOSB | ELM  ON | OP | | IN | IP | GC | NF  ILM |
| *TiO2*  *Concentration*  *(wt. %)* | 0.12 | 0.0 | 0.02 | | 0.0 | 0.02 | 0.0 | 0.04 |
| *Key:*  Bruch’s Membrane (BM)  Retinal Pigment Epithelium (RPE)  Inner/ Outer Segment Boundary (IOSB) Exterior Limiting Membrane (ELM)  Outer Nuclear Layer (ON) | | | | Outer Plexiform Layer (OP)  Inner Nuclear Layer (IN)  Inner Plexiform Layer (IP)  Ganglion Cell Layer (GC)  Nerve Fiber Layer (NF)  Inner Limiting Membrane (ILM) | | | | |