**SUPPLEMENTARY DATA**

**Supplementary Figure 1**

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| --- | --- | --- |
| Formulation | Z-Average Particle Diameter (µm)\* | siRNA Encapsulation Efficiency (%)\* |
| Blank NiMOS | 2.66 ± 0.38\* | NA |
| siRNA containing NiMOS | 2,63 ± 0.17 | 55.4 ± 8.13 |

\*Mean ± S.D. (n = 4)

**Supplementary Figure 1:** Scanning electron micrographs of type B gelatin nanoparticles and Nanoparticles-in-Microsphere Oral System (NiMOS). Particle size and siRNA encapsulation efficiency in NiMOS are presented in the above table.

**Supplementary Figure 2**

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| **A** |
| **B** |

Supplementary Figure 2: Relative cytokine expression cytokines the small intestines at (A) 24-hours and (B) 72-hours post last dose; \*\*\*p<0.001, \*\*p<0.01,\*p<0.05; n=3