Dear Dr. Nguyen,

We would like to thank you and the reviewers for all of the valuable comments. The following are our responses:

**Responses to the editor’s comments:**

1. We have requested George Talbott, a native English speaker, to proofread our manuscript. (line 444-445) The grammatical corrections have been made. (line 28, 29, 30, 31, 35, 39, 40, 41, 42, 45, 46, 47, 48, 49, 54, 55, 56, 57, 62, 64, 75, 76, 81, 83, 85, 86, 89, 92, 95, 96, 100, 104, 109, 111, 113, 115, 117, 119, 123, 124, 127, 128, 134, 136, 140, 150, 152, 160, 167, 185, 192, 195, 203, 205, 213, 216, 218, 228, 230, 231, 232, 234, 235, 240, 245, 247, 248, 251, 257, 261, 263, 267, 271, 274, 279, 286, 312, 314, 329, 332, 333, 334, 338, 346, 349, 350, 352, 353, 356, 358, 360, 363, 364, 369-370, 371, 372, 373, 374, 375, 380, 382, 385, 386, 388, 392, 393, 394, 395, 396, 397, 398, 402, 405, 406, 407, 417, 418, 422, 429)
2. Section headers are now bold (line 81, 132, 243, 277, 306). All journal titles are abbreviated (line 449, 455-456, 458, 464, 468-469, 471, 474, 476).
3. Additional details have been added:
4. It will take about 1 week for the cells to reach confluence (line 104-105). The media should be changed twice a week before the cells reach confluence (line 107)
5. Pore size has been previously specified in Table of Materials, and is now included in 5.2. (line 310)
6. The black arrow shows the dome-like structure formed by confluent Caco-2 cells. (line 364)

We realized that the catalog number for the 15 cm tissue culture dish was incorrect. We have made the correction (Table of Materials).

**Responses to the reviewer #1’s comments:**

1. We have added the supported reference for the methods in quantifying absorption. (line 424-425)

**Responses to the reviewer #2’s comments:**

1. The water bath incubation has been added. (line 85)
2. We have clarified the confusion with regard to the changing of the cell media. (line 107-109)
3. Section 2.1.10.2.4. and 2.1.10.2.5. have been omitted, and the section numbering has been adjusted accordingly. (line 174-181)
4. The information about cell detachment has been added. (line 206-207)
5. The additional steps to remove the supernatant have been added. (line 223-224)
6. The structures pointed by the black arrow have been identified. (line 364)
7. References have been added to identify the other Caco-2 models. (line 407, 478-487)
8. The last sentence has been rephrased. (line 426-427)

**Responses to the reviewer #3’s comments:**

1. The phrase has been added. (line 102, 157-158)
2. The replacement has been made. (line 108)
3. The shaking has been previously described in section 1.1.2. (line 236)
4. The abstract has indicated what TEM stands for. (line 51)
5. The word “gently” has been moved. (line 338)
6. “~” has been replaced with “approximately.” (line 343)

Please let us know if there are any additional changes that need to be made. We appreciate all of the comments that we have received.

Sincerely,

Andy Nauli