

Supporting Information

Investigation of Microplastics ($\geq 10\ \mu\text{m}$) in Meconium by Fourier Transform Infrared Microspectroscopy

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This Supporting Information contains 2 figures and 1 table.

Table S1. The information of protocols and samples used in the initial pretreatments.

| Chemical | Protocol | Sample | Dry weight/g |
|----------------------------------|--|--------|--------------|
| Fenton's reagent + | Phase 1: 280 mL Fenton's | 1A | 1.23 |
| Nitric acid (HNO ₃) | reagent (H ₂ O ₂ : iron catalyst | 2A | 1.35 |
| | solution = 2.5:1) with | 3A | 1.23 |
| | meconium, lasting less for 5 h | | |
| | below 40 °C. | | |
| | Phase 2: 4 mL 65% HNO ₃ is | | |
| | added and incubated in 90 °C | | |
| | water bath for 5 h. | | |
| Hydrogen peroxide | 30% H ₂ O ₂ with human fecal | 4A | 0.33 |
| (H ₂ O ₂) | samples (25 mL:3 g) for 9 | 5A | 0.20 |
| | months. | 6A | 0.26 |
| HNO ₃ | HNO ₃ (9 mL) is added to the | 7A | 0.31 |
| | samples (0.1 - 0.2 g), allowing to | 8A | 0.20 |
| | stand for 16 h, and then heat at | 9A | 0.21 |
| | 80 °C for 4 h. | 10A | 0.19 |
| | | 11A | 0.18 |

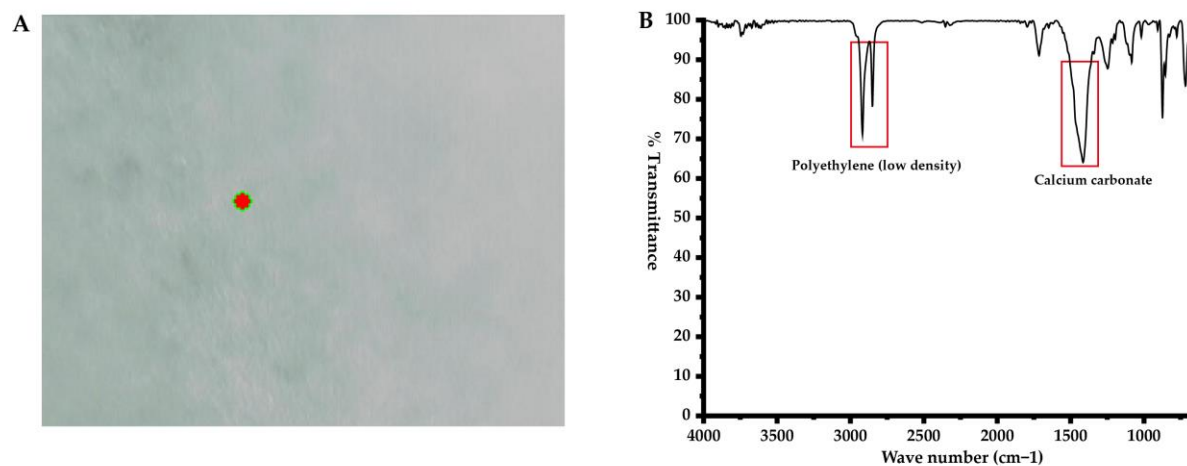


Figure S1. The composition of diaper control. (A) Photograph of Fourier transform infrared microspectroscopy (200 × magnification); (B) FTIR spectrum of diaper. The red dot in A indicates the position for detected.

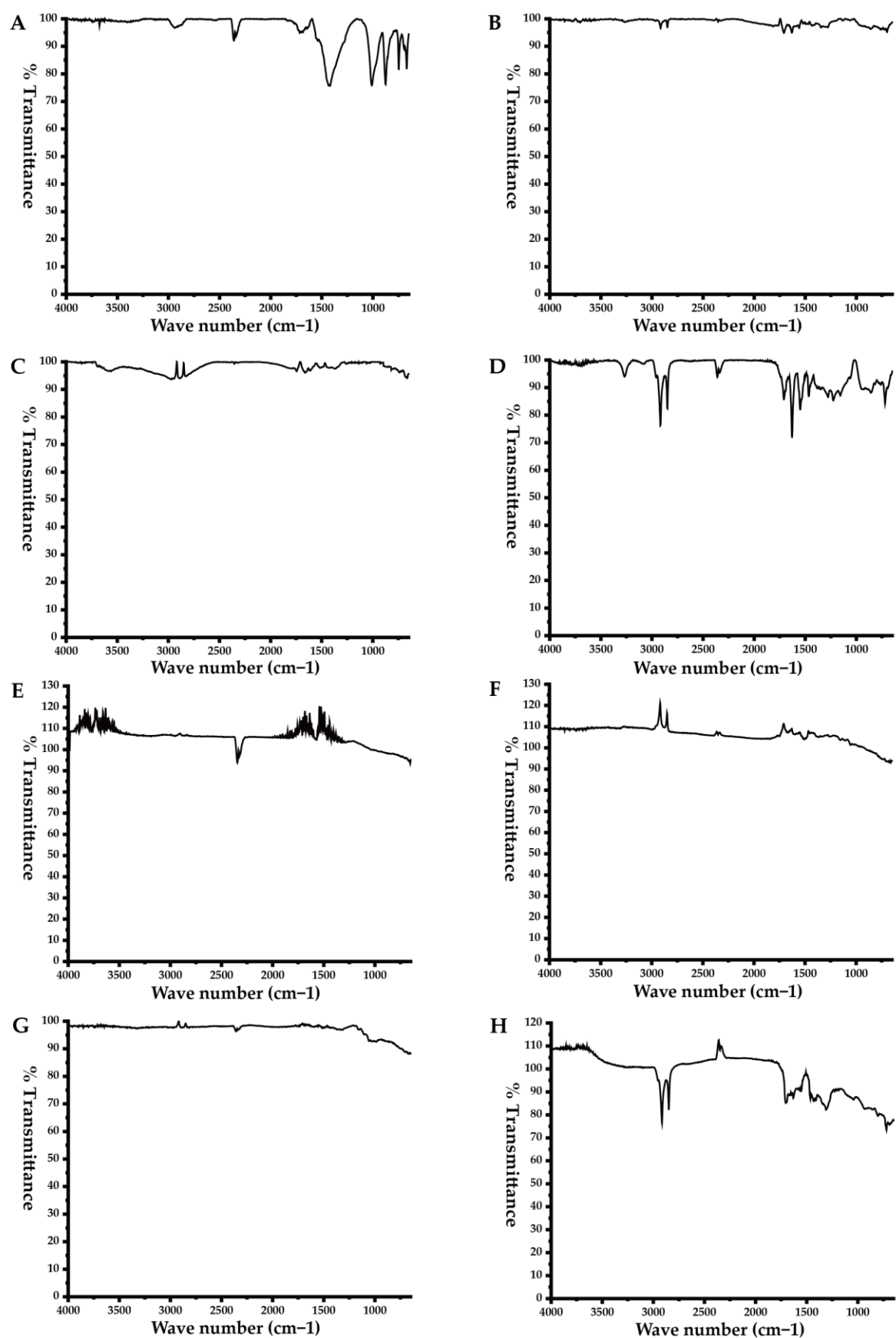


Figure S2. FTIR spectra of other potential MPs in the meconium samples from (A) No. 1, (B) No. 9, (C) No.10, (D) No. 15, (E) No. 17, (F,G) No. 32, (H) No. 37.