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MRI Imaging of the Gut

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ABSTRACT

This test is used measure peristaltic activity in the upper portion of the gut.

OPEN ACCESS



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https://protocols.io/view/mriimaging-of-the-gut-c4piyvke

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Protocol status: Working We use this protocol and it's working

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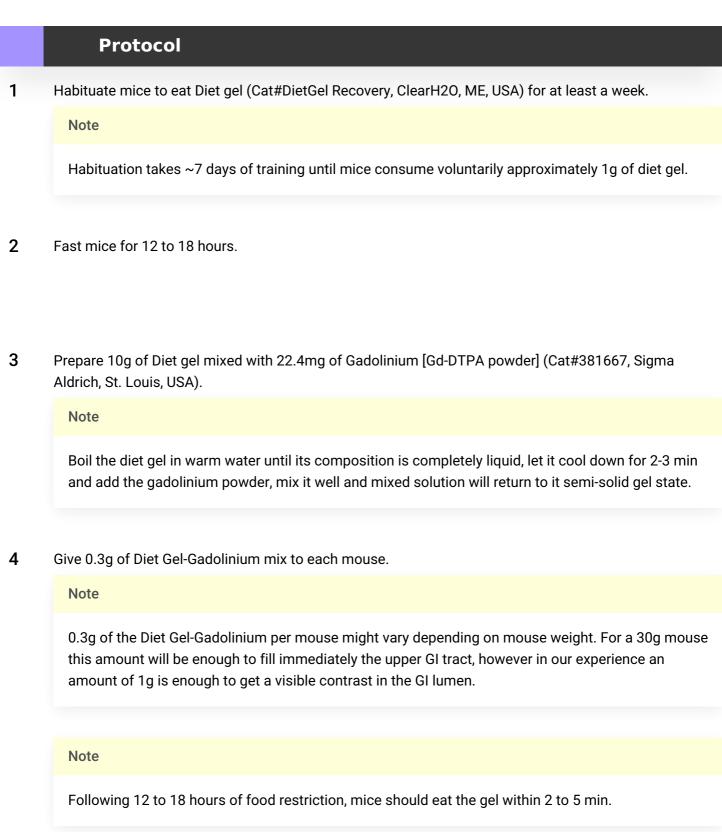
Keywords: ASAPCRN, MRI,

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MATERIALS

- DietGel Recovery, Cat#72-06-5022 ClearH2O, ME, USA
- Gadolinium [Gd-DTPA powder] Cat#381667, Sigma Aldrich, St. Louis, USA
- 7T rodent MRI BioSpec 70/30; Bruker Instruments, Billerica, USA

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Using a 7T rodent MRI (BioSpec 70/30; Bruker Instruments, Billerica, USA), position the animal in prone and monitor respiratory activity patterns.

Note

Respiratory gating is highly recommended for image quality.

- **6** Localize the longitudinal axis of the stomach.
- 7 Perform series of alternating volumetric and fast scans.

Note

Volumetric scans are performed using a FLASH sequence, parameters should be troubleshooted for each investigator, however reference parameters for repetition time, echo time, angles, and thickness can be taken from Lu et al, 2018.

8 Sequences commonly take 2 min, repeat for as long as your experimental setting requires.