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

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Gastrointestinal transit

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ABSTRACT

This protocol details measuring gastrointestinal transit time in mice

ATTACHMENTS

786-1996.pdf

MATERIALS

Reagents

Carmine Merck MilliporeSigma (Sigma-Aldrich) Catalog #C1022

0.5% methylcellulose Merck MilliporeSigma (Sigma-Aldrich) Catalog #M0512

Procedure

- 1 Prepare a sterile solution of carmine red (300 μl; 6%; Sigma-Aldrich, Cat #C1022; St Louis, MO) suspended in 0.5% methylcellulose (Sigma-Aldrich, Cat #M0512; St Louis, MO).
- Administer 4 0.3 mL of carmine red solution by gavage through a 21-gauge round-tip feeding needle.
- **2.1** The time at which gavage takes place is recorded as T_0 .
- 3 Place each mouse in separate cages without bedding.
- 4 © 01:00:00 after gavage, monitor fecal pellets at \bigcirc 00:10:00 intervals for the presence of $\frac{1h\ 10m}{1h\ 10m}$ carmine red. Total GI transit time is considered as the interval between T_0 and the time of first observance of carmine red in the stool.