

Protocol for Using Standard (Large Animal) GreenFeed with Small Animals

Last Revised: Jan 28th, 2026

Purpose: This protocol outlines the requirements and caveats associated with using a Large Animal GreenFeed to measure emission rates from small animals.

Visitations

- No more than 25 animals per GreenFeed on free-access systems.
- No more than 5 visits per animal per day, spaced evenly throughout the day.
- Visits must be controlled to be more than 3 minutes per visit - recommendation:
 - If using small cup insert: 20 seconds per drop, 10 ~ 12 drops, 4 ~ 5 hours per feeding period.
 - If not using small cup insert: 45 seconds per drop, 5 ~ 6 drops, 4 ~ 5 hours per feeding period.
 - But adjust accordingly as your animals visit.

Setup

- GreenFeed systems must be equipped with the Tuneable Diode Laser CH₄ sensor. Contact C-Lock if you are unsure which sensor you have.
- A GreenFeed system cannot be used with small animals and large animals in the same trial timeframe.
- Isolation Wings ("Dog House") must be used to ensure dead volume is reduced.
- A ramp or series of steps must be used to ensure that the animals' heads are above **(higher than)** the head proximity sensor when they are standing at the system.
- C-Lock must be informed when switching from small animals to large or from large animals to small, to configure the data processor accordingly.

Caution

- CH₄ tidal breath is likely not able to be measured.
- O₂ emission rates are likely to be too low to measure accurately.
- CO₂ uncertainty will be higher than on a small animal GreenFeed.

If you have any questions or concerns, please feel free to contact data@c-lockinc.com