BIOLABWARE[™]

PT INDOGEN INTERTAMA JI Raya Cilangkap No 111 JAKTIM 13870 www.indogen.id | sales.indogen@gmail.com WA: 081-293-185-185

> DATASHEET Version : UR-02/ZR-01/22042025

Oral Gavage (Feeding Needle/Sonde Oral)

Item No. : BL-SO12B/BL-SO12L Size: 1ea/1pack (10ea)



Introduction

Oral gavage is a method employed to deliver liquid substances or drugs directly into a rodent's stomach through the mouth. This technique is frequently utilized in experimental research. Feeding needles are available in various models, tailored to the size of the experimental animals. It is imperative to pay attention to the specifications of the feeding needle to prevent injury to the animals and to ensure successful experimental outcomes.

BL-SO-XX	Oral Gavage/Feeding Needle (Sonde Oral Rat), ALL Size/Cat. No.; 10ea/box	
For laboratory mice		
BL-SO6B	Oral Gavage/Feeding Needle (Sonde Oral), bent, #6, new born	
BL-SO6L	Oral Gavage/Feeding Needle (Sonde Oral), straight, #6, new born	
BL-SO8B	Oral Gavage/Feeding Needle (Sonde Oral), bent, #8, <15g	For Monitor las de das alts alts alts alts alts alts alts al
BL-SO8L	Oral Gavage/Feeding Needle (Sonde Oral), straight, #8, <15g	Sonde Oral BL-SO12L #12
BL-SO9B	Oral Gavage/Feeding Needle (Sonde Oral), bent, #9, 20g	BIOLASWARE "
BL-SO9L	Oral Gavage/Feeding Needle (Sonde Oral), straight, #9, 20g	
*BL-SO12B	Oral Gavage/Feeding Needle (Sonde Oral), bent, #12, >25g	O O O O O O O O O O O O O O
*BL-SO12L	Oral Gavage/Feeding Needle (Sonde Oral), straight, #12, >25g	

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Biolabware reserves the right to make changes to product specifications for the purpose of improvement, and such changes may occur without prior notice.

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BL-SO16B	Oral Gavage/Feeding Needle (Sonde Oral), bent, #16, <200g	Sonde Oral BL-SO12B #12
BL-SO16L	Oral Gavage/Feeding Needle (Sonde Oral), straight, #16, <200g	
BL-SO18B	Oral Gavage/Feeding Needle (Sonde Oral), bent, #18, 250g	
BL-SO18L	Oral Gavage/Feeding Needle (Sonde Oral), straight, #18, 250g	
BL-SO20B	Oral Gavage/Feeding Needle (Sonde Oral), bent, #20, 280g	
BL-SO20L	Oral Gavage/Feeding Needle (Sonde Oral), straight, #20, 280g	

*In stock (Available)

Note: The use of a straight head oral gavage is advantageous due to its lack of directionality, allowing the technician's right hand to easily contact the booster part of the injection needle during insertion. This facilitates direct drug injection following placement. In contrast, while a curved gavage needle is designed to align with physiological structures, it necessitates precise coordination between the needle's bend and the orientation of its booster part. If this alignment is not properly executed, adjustments may be required post-insertion, which can lead to agitation in the rat and an increased risk of the needle dislodging.

Material

The gavage needle supplied by Biolabware is constructed from 304 stainless steel and features a teardrop-shaped tin head. This needle is primarily designed for drug delivery experiments involving experimental animals; however, it can also be utilized for administering medication or providing milk to other pets.

How to use

- 1. Begin the procedure by ensuring that all needles have been properly disinfected. Additionally, disinfect between groups to maintain hygiene.
- 2. Weigh the animal to determine the appropriate dosage volume.
- 3. Check the length of the gavage tube by measuring from the tip of the animal's head to the bottom of the rodent's sternum (from the outside). Mark the tube at the nose and do not advance it beyond this point/mark to prevent perforation of the stomach, particularly in younger animals weighing less than 20 grams.
- 4. Restrain the animal appropriately. For a mouse, scruff the skin over its shoulders using your thumb and middle fingers, ensuring that the forelegs are extended outward to prevent the animal from pushing the gavage tube away. For a rat, hold it near the thoracic region while supporting its lower body.
- 5. Stabilize the animal's head by gently extending it backward. This alignment creates a straight path through the neck and esophagus.
- 6. Introduce the gavage tube into the diastema (gap between two teeth) of the mouth and gently advance it along the upper palate until it reaches the esophagus. The tube should slide easily into the esophagus, and the animal may swallow as it is inserted. Ensure a smooth, continuous motion when passing the tube. Note: If you encounter any resistance, do not force the tube; instead, withdraw it and attempt again.

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- 7. Once proper placement is confirmed, administer the material using a syringe attached to the end of the tube. Avoid rotating the tube, as this may rupture the esophagus. After dosing, gently remove the tube, following the same angle used for insertion.
- 8. Return the animal to its cage and monitor it for 5-10 minutes for any signs of labored breathing or distress. Outlined strategies above will ensure personnels to monitor and mitigate the following risks: perforation or trauma to the esophagus or stomach, aspiration into the trachea or lungs, and respiratory distress.

Cleaning for Metal Gavage

- 1. After use between animals, metal gavage tubes should be thoroughly flushed with water and wiped dry using gauze.
- 2. Upon completion of usage, clean the tubes with soapy water.
- 3. Rinse thoroughly and allow the tubes to dry completely before storage.

Important Notes

- Maintain control of the gavage needle throughout the procedure. Hold the syringe in a manner that allows for easy depression of the plunger without the need to adjust your grip.
- The oral gavage technique delivers substances directly into the distal esophagus, from where they subsequently enter the stomach. It is essential to avoid advancing the needle into the stomach itself.
- Select the appropriate needle gauge and length based on the size of the animal, as well as the viscosity and volume of the substance being administered.
- Prior to gavaging, determine the correct insertion length of the gavage needle.
- Proper restraint is critical, particularly when using metal gavage needles. It is vital to immobilize the head and straighten the neck without obstructing respiration to prevent the animal from turning its head and biting the needle.
- Never force the gavage needle down; allow the animal to swallow, using gravity to assist in the process.
- Ensure that the animal is breathing normally before administering the substance.
- Administer the substance slowly and do not withdraw the needle until the entire dosage has been delivered.
- The administered substance should be in suspension or solution at room or body temperature, and the smallest possible volume should be used.
- Cease the procedure immediately if the animal exhibits any signs of respiratory distress, such as cyanosis (blue skin), gasping, coughing, struggling, or fluid discharging from the nose.