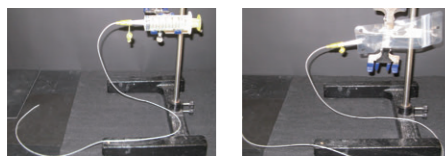


# QUICK BAG can be used with capsules and tablets that are not suitable for the simple suspension method

**[Method]** (Test No.M1 ~ M17 and T1 ~ T15)\*1

Add medicine and water (30mL, 55°C) into dispenser or QUICK BAG. After 10 minutes evaluate (with QUICK BAG tablets and capsules are crushed via fingers).



<Tablet・Capsule>

- ◎: It can be administered after crushing drug with fingers
- ☆: It can be administered after crushing drug with a medicine spoon
- : It can be administered without crushing
- ×: Difficult administration
- △: Breaks up after time. However, coating layer may cause issues with tube clogging

**[Suitability]** Represents the suitability for gavage administration

- Suitable 1 (S1): The medicine suspends within 10 minutes and is completely passable through tubing (size 8Fr) and gastrostomy buttons.
- Suitable 2 (S2): Same as S1. However, tablet coating must also be removed/capsules must be opened.
- Conditional 1 (C1): Passage conditional on tube size.
- Conditional 2 (C2): Enteric-coated tablets. Can be used if tube is inserted until the intestines.
- Conditional 3 (C3): Can be used. However, medicine must first be crushed by medicine spoon.
- Not Suitable (NS): Not suitable for gavage administration by simple suspension method.

\*1. M1-17 were tested by Morimoto Pharma. T1-15 results were taken from a presentation by Professor Chono, Hokkaido College of Pharmacy, Clinical Pharmacy Forum 2014.

**[Result]** ※Most other drugs are usable using QUICK BAG, as well.

Test No.	Product name	Tablet coating (Dosage form)	Tubing Size (Fr)	Dispenser		QUICK BAG	
				10 min	Suitability	10 min	Suitability
M1	Plavix 25mg	Film C tablet	8	×	NS	☆	C3
M2	Plavix 75mg	Film C tablet	8	×	NS	☆	C3
M3	Micardis Tablets 40mg	Naked tablet	8	×	NS	○	S1
M4	MAINTATE Tablets 2.5mg	Naked tablet	8	×	NS	○	S1
M5	REZALTAS COMBINATION TABLETS LD	Film C tablet	12	×	NS	☆	C1
M6	REZALTAS COMBINATION TABLETS HD	Film C tablet	12	×	NS	☆	C1
M7	Allegra 60mg	Film C tablet	8	△	C1	○	S1
M8	KETAS capsules 10mg	Hard capsules	8	×	NS	○	S1
M9	SINGULAIR Tablets 10mg	Film C tablet	8	△	C1	○	S1
M10	THYRADIN-S TABLETS 50µg	Naked tablet	8	△	C1	○	S1
M11	ALTAT CAPSULES 75mg	Hard capsules	12	△	C3	○	C1
M12	Takepron capsules 15mg	Naked tablet	8	△	C1	○	S1
M13	Ferrum CAPSULES 100mg	Hard capsules	8	×	NS	○	S1
M14	CELLCEPT 250mg	Hard capsules	8	△	C1	○	S1
M15	CRAVIT TABLETS 100mg	Film C tablet	8	○	C1	○	C3
M16	Mainheart 5(Bisoprolol Fumarate)	Naked tablet	8	×	NS	○	S1
M17	GLYCYRON Tablets	Dragee	8	×	NS	☆	C3
T1	TAKAVENSU	Dragee	8	—	—	○	S1
T2	TOFRANIL Tablets	Dragee	8	—	—	○	S1
T3	LOXONIN TABLETS	Naked tablet	8	—	—	○	S1
T4	CALBLOCK TABLETS	Naked tablet	8	—	—	○	S1
T5	CEREKINON Tablets	Film C tablet	10	—	—	○	C1
T6	NU-LOTAN Tablets	Film C tablet	8	—	—	○	S1
T7	Neuzym	Naked tablet	8	—	—	○	S1
T8	Panaldine	Film C tablet	8	—	—	○	S1
T9	Farom Tab.	Film C tablet	8	—	—	○	S1
T10	MERCAZOLE TABLETS	Dragee	8	—	—	○	S1
T11	LIMAS tab.	Film C tablet	8	—	—	○	S1
T12	RESLIN Tablets	Film C tablet	8	—	—	○	S1
T13	Theodur Tablets	Naked tablet	12	—	—	○	C1
T14	Takepron OD Tablets	Naked tablet	10	—	—	○	C1
T15	Takepron Capsules	Hard capsules	12	—	—	○	C1

High-speed Gavage Preparation and Administration

## QUICK BAG



**Break away from traditional gavage administration!**

Applicable to a variety of pills! Be freed from complicated gavage preparation.

Less steps. Frees up time and reduces workload.

Next-generation technology to replace the standard methods of gavage administration.

Medical staff rave reviews!

### Feedback from satisfied users of QUICK BAG.

Time spent crushing drugs and exposure risk are both reduced. I feel that the benefits far outweigh the cost.

Hospital pharmacist

Because it is disposable, we don't have to worry about being exposed to cancer drugs.

Cancer center nurse

The time spent double checking procedures can be greatly reduced. Saves time. Extremely efficient.

Hospital pharmacist

QUICK BAG is quite different than using syringes. Drugs can be delivered without fear of clogging.

Orthopedics, neurology ward nurse

I think it's easier to use when compared to syringes. It's inexpensive and no cleaning is needed. Very good!

Neurosurgery ward nurse

Hanging is very fast and medicine and nutrition bags can be hung together. The risk of drug mistakes and spilling are both reduced.

ICU Nurse

~ If you are interested in or have any questions about QUICK BAG, please contact us ~

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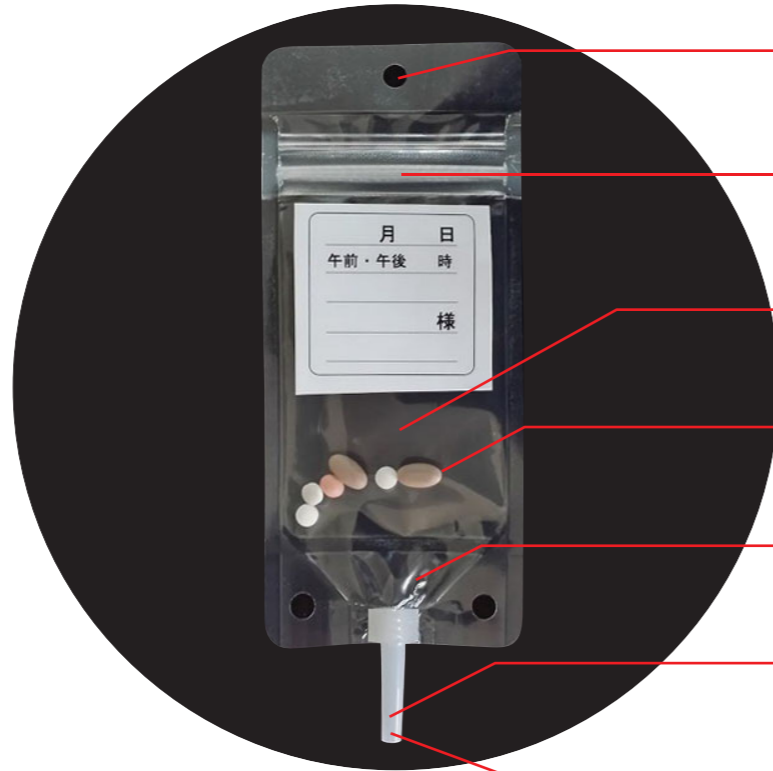
Happy to take medicine  
**MORIMOTO-PHARMA**

# Next-generation technology to replace the standard methods of gavage administration.

~ No hassle! No clogging! No mistakes! Economic! QUICK BAG for high-speed gavage preparation and administration ~

There are all sorts of problems regarding the gavage administration process. Cleaning and drying syringes is very time consuming. Mixing up syringes can cause the wrong medicine to be administered. Crushing drugs via traditional methods reduces the dose administered. Clogged tubes are a burden to both caregivers and patients. All of these problems end up costing a substantial amount of money.

High-speed QUICK BAG was designed to eliminate these problems. It is disposable so cleaning and drying steps are eliminated. The drug suspension can be visually inspected to confirm no clumps are present which can cause tube clogging. Extra tools are not needed to crush medicine, eliminating contamination. Via adoption of QUICK BAG cost associated with gavage administration can greatly be reduced. It is time for safe, efficient, reliable and economic gavage administration!



Overall dimensions	W85×H235mm
Weight (empty)	4.6 g
Maximum Volume	60mL
Max temperature	90°C
Product Life	5 years
Product Material	Polyethylene, polyamide
Accessories	Label

- Safe
- Efficient
- Reliable
- Economic

- ① **Medicine is crushed using one's fingers. Drugs that are typically not suitable for gavage administration can be used.**
- ② **Crushing with fingers is fast. Medicine can be administered within 10 minutes.**
- ③ **QUICK BAG is disposable; making gavage administration safer and more sanitary.**
- ④ **QUICK BAG is transparent so the suspension can be visually inspected to ensure that no clumps are present that will cause tube clogging.**
- ⑤ **Air-tight design is safer for caregivers.**

### Instructions

① Open the innermost bag and add medicine.

**⚠ Please note that QUICK BAG has 2 layers.**

Ensure that drug powders do not contact the plastic zipper.

Zipper Outside—  
Outside  
Open innermost bag.

② Put 20-30mL of water (at approx. 55°C) into the bag.

55°C

③ Remove air from inside of bag and seal. Let sit for 5-10 minutes.

④ Visually inspect. If any medicine is still intact, crush with fingers.

⑤ Attach to tubing. Hold tubing with one hand and slowly roll up QUICK BAG with the other. As pressure is applied the easy open seal will open and the suspension will be transferred to the attached tubing.

Inject Vertically

Do not allow the bottom of QUICK BAG to bend at a right angle. It may cause leakage.

# Designed to solve all the problems of gavage administration!

## Comparison of QUICK BAG with traditional products

QUICK BAG	①Product A	②Product B	③Product C
<b>Can be easily hung</b> Easy to use in tight workspaces.	<b>Extra storage, working space needed</b> <b>Drying equipment required</b>		
<b>Wide mouth opening</b> Easy to add medicine and water to inner bag.	<b>Spills when transferring</b>	<b>Separate work procedure needed to transfer to syringe</b>	—
<b>Transparent</b> Transparent so it is easy to visually inspect suspension.	<b>Difficult to see</b>	<b>Difficult to see</b>	<b>Difficult to see</b>
<b>Contents can be crushed using one's fingers</b> Fast preparation, prevents tube clogging.	<b>Shake to break up medicine</b>	<b>Shake to break up medicine</b>	<b>Shake to break up medicine</b>
<b>Full transfer of contents</b> Unique design allows for complete transfer of suspension.	<b>Residues</b>	<b>Residues</b>	<b>Residues</b>
<b>No leaks</b> Top and bottom are both sealed, stopping leaks.	<b>Leaks</b>	<b>Leaks</b>	<b>Possibility of backflow after injection.</b>
<b>Disposable - simple and safe</b>	①Cleaning, drying and sterilizing are time-consuming and labor intensive. ②Spending time three times a day for cleaning and drying interferes with other work. ③Locating each patient's dedicated syringe takes a lot of time.		
<b>Compatible with all standard connectors</b> Meets the Ministry of Health, Labour and Welfare's standards. Can be used with all standard female connectors.	※Compliant with the plastic injection container specifications and extractables test listed in JP 7.02 (Test methods for plastic containers). Compliant with the Ministry of Health, Labour and Welfare's specifications for enteral nutrition line connections.		

## Adoption of QUICK BAG will reduce labor costs! Eliminates tube clogging and mistaken drug administration!

### 【 Assumptions 】

- ◆Equipment cost:
  - ①Gavage administration of 20 patients
  - ②Supplies(syringes, etc.) are assumed to \$1.20/patient and discarded after one week
  - ③QUICK BAG price is set to \$1.00/bag and disposed after use
- ◆Nurse Labor: Confirmation, cleaning, drying and management
- ◆Pharmacist Labor: Dispensing, verification, crushing and packaging
- ◆Incidents: Tube clogging, drug mistakes. 2 times per year, resulting in a loss of \$10,000
- ◆Startup costs: Creating a drug list, system architecture, drying machine, etc.

※Hourly wage(2011, Basic Survey on Wage Structure by Ministry of Health, Labour and Welfare)  
 pharmacist: \$24.00/h Nurse: \$23.00/h

