

# B. Braun Oral Dispensers

Best practice for the administration of oral liquid drugs.



Exact. Safe. Easy.

**B | BRAUN**  
SHARING EXPERTISE

## B. Braun Exadoral®

### Improve medication safety of oral liquid drugs

Oral liquid drugs are mainly prescribed to children, elderly people or respectively patients unable to use solid forms due to their clinical condition.

### Risks of common delivery methods

To administer oral liquids measuring spoons, tea spoons and hypodermic syringes are most commonly used. These devices provide the risk of inaccurate dosing and wrong-route administration.

Several studies prove that measuring spoons provide the risk of inaccurate dosing. With a spoon it is quite difficult to measure the correct dose and to administer the drug without spilling. This leads to over- or underdosage of the medicine.

Due to their design hypodermic syringes are easy to handle. They provide the required accuracy for measuring the correct dosage. The medicine can be administered at once and completely.

However, hypodermic syringes are not a safe way to deliver oral liquids. Drawing up oral drugs in a syringe can lead to accidental intravenous injection of the drug as a needle or IV line can easily be connected.

To prevent medication errors and wrong-route administration of oral liquids, worldwide accredited experts recommend to use dedicated oral dispensers.<sup>1,2</sup>

### B. Braun Exadoral®

#### Best practice for oral liquid medication

Using B. Braun oral dispensers means minimizing the risk of dosage failures and maximising safety.

#### Benefits

- Exact withdrawal and dosing
- Easy to read graduation
- Easy handling due to syringe-type design
- Fast and clean administration
- Effective and complete administration
- Suitable for viscous drugs
- Safe non-luer tip design
- Proven multi-usability
- CE/ISO certified
- PVC, DEHP and latex-free
- Marketable in the US



<sup>1</sup> European Medicines Agency (EMA). Guideline on the suitability of the graduation of delivery devices for liquid dosage forms. EMA/CHMP/QWP/178621/2004.

<sup>2</sup> National Patient Safety Agency (NPSA). Patient safety alert 19: promoting safer measurement and administration of liquid medicines via oral and other enteral routes. NPSA/2007/19

# Exact. Safe. Easy.



## Proven product quality

B. Braun oral dispensers are tested regarding microbiological stability, slip force of plunger and barrel and smear resistance of scale. In addition, B. Braun OEM performed an independent study, which proves the high dosing accuracy of Exadoral® oral dispensers.<sup>3</sup>

The following chart shows the comparison of Exadoral® oral dispenser and measuring spoon (n=6).

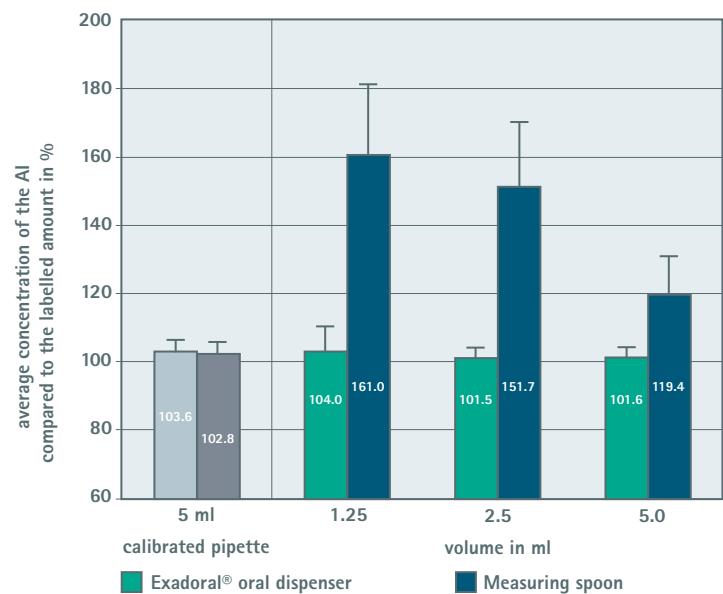


Figure 1: Comparison dosing accuracy Exadoral® oral dispensers and measuring spoons (n=6).

## Connecting Competences. Realizing Ideas.

Everyone involved in the chain of medical care has to be a professional perfectionist. Drug manufacturer, medical device manufacturers and caregivers have a special responsibility for ensuring best patient outcome. Where safety is concerned we cannot accept any compromises.

Provide a patient-oriented solution by adding B. Braun oral dispensers to your drug.

<sup>3</sup> S. Dockhorn, D. Feuersenger, S. Schuenemann, B. Knauf, S. Duerr, M. Schubert-Zsilavec and M. Abdel-Tawab. Study of microbial contamination and dosing accuracy of oral dispensers. Journal of Clinical Pharmacy and Therapeutics, pages 279–287.

## B. Braun Oral Dispensers at a Glance

### Exadoral®

for upside down withdrawal

Two-piece oral dispenser

Size	Graduation	Sterility	Material	Packaging	Article No.
2 ml	0.25 ml	non-sterile	PP/PE	bulk	4606990
5 ml	0.25 ml	sterile	PP/PE	blister	4606960
5 ml	0.25 ml	non-sterile	PP/PE	bulk	4606970
10 ml	0.5 ml	sterile	PP/PE	blister	4606967
10 ml	0.5 ml	non-sterile	PP/PE	bulk	4606975
20 ml	0.5 ml	non-sterile	PP/PE	bulk	4606995

Press-in bottle adapter for Exadoral® oral dispenser

Size ø	Sterility	Material	Packaging	Article No.
24 mm	non-sterile	PP	bulk	AL11147
28 mm	non-sterile	PP	bulk	AL11148

### Dispenser Set

for upright withdrawal

Oral dispenser and bottle adapter with suction tube in plastic case

Size	Graduation	Material	Size ø	Length	Sterility	Article No.
1 ml	0.05 ml	PP/PE	10 mm	93 mm	non-sterile	4600231S
4 ml	0.1 ml	PP/PE	10 mm	93 mm	non-sterile	4600096S

Press-in bottle adapter with suction tube for Dispenser Set

Size ø	Length	Sterility	Material	Packaging	Article No.
10 mm	93 mm	non-sterile	LDPE	bulk	4606966S
10 mm	120 mm	non-sterile	LDPE	bulk	4606965S

### System-built solutions

Contact us for your customized solution

- Label and packaging
- Graduation
- Design and color
- Volumes
- Bottle adapters

available in clear,  
purple and orange

Partnering with B. Braun OEM gives you access to complete project management capabilities.