

MODEL MK-12-B

RAT VAGINAL IMPEDANCE CHECKER



- **The best method to know proestrus stage**
- **Powerful tool for the improvement of reproduction efficiency**
- **Simple operation**
- **Battery-operated**

MK-12-B Rat Vaginal Impedance Checker has been designed to obtain a precise information on optimum day for mating during estrous cycle in the rats.

The electrical impedance of the epithelial cell layer of vaginal mucosa is measured at the frequency of 1 kHz by insertion of the probe into vagina. In the proestrus stage significantly high impedance is produced compared to that in the other stages of the estrous cycle. 3 Kohm of impedance can be considered a standard indicating proestrus stage. Measuring range is 0 - 19.9Kohm.

The conventional method known as vaginal smear method takes troublesome procedures such as taking smear, drying, dyeing and check-up using microscope. It really takes skill as well as time and labor.

Rat Vaginal Impedance Checker is a time & labor saving device on top of high reliability. Further, operation is so simple that even inexperienced personnel can easily use it.

NOTE: This product has been developed in cooperation with Chugai Pharmaceutical Co., Ltd.

The Standard System Includes:	
MK-12-B Main Unit	1
RP-45B Rat Probe	1
CA-100B Cable	1
Rechargeble Battery (Ni-MH)	4

REFERENCES:

- Bartos, L.(1975). Physiol. Bohemoslov., 24,427.
 Bartos, L.(1977). Lab. Anim., 11,53-55
 Bartos, L.(1977). Lab. Anim., 11,57-58
 M..Koto(1987). Exp. Anim., 36(2),151-156.
 M..Koto(1987). Exp. Anim., 36(2),195-198
 Teradach,C.(1982). Sci. Tech. Anim. Lab.,7,49-84



The continuous use of the MK-12-B Rat Vaginal Impedance Checker does not affect pregnancy rate or other reproduction achievements.

SPECIFICATIONS	
Measurement Range	0 - 19.9 Kohm
Accuracy	± 1 % ± 1 digit
Display	LCD
Battery	2 Rechargeble Battery (Ni-MH)
Battery Life	42 hours (When used continuously)
Dimensions	W96 × D145 × H25 mm
Weight	Approx. 180 g (Battery excluded)

PROBE	
RP-45B Rat Probe	O.D.4.5 × L55 mm
MP-35A Mouse Probe	O.D.3.5 × L50 mm

IMPORTANT NOTICE: The MK-12-B has been developed exclusively for rats. A mouse probe is available upon request, but test results cannot be guaranteed.

Specifications are subject to change without notice.

MUROMACHI KIKAI CO., LTD.