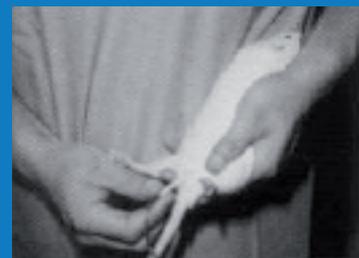


MK-12

RAT VAGINAL IMPEDANCE CHECKER



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



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

MK-12

RAT VAGINAL IMPEDANCE CHECKER

Features and Benefits

MK-12 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.

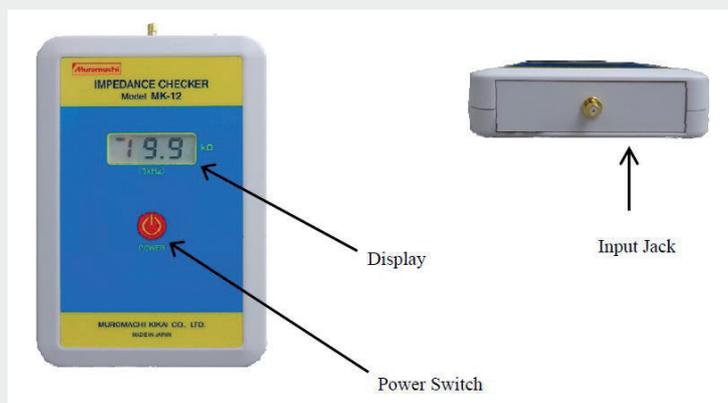
The conventional method known as vaginal smear method takes troublesome procedures such as taking smear, drying, dying and check-up using microscope. It really takes skill as well as time and labor.

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.

Standard system include:

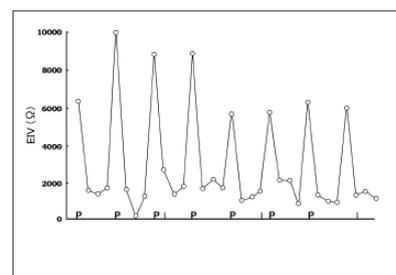
- 1 x MK-12 Main Unit
- 1 x RP-45A Rat Probe
- 1 x CA-100A Cable
- 4 x Rechargeable Battery (Ni-MH)

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

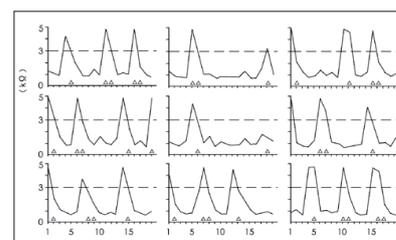


Specifications & reference

Measurement Range :	0 - 19.9 Kohm
Accuracy:	$\pm 1\% \pm 1$ digit
Display :	LCD
Battery:	2 Rechargeable Battery (Ni-MH)
Battery Life:	42 hours (When used continuously)
Dimensions:	W96 × D145 × H25 mm
Weight:	Approx. 180 g (Battery excluded)
Probe RP-45A Rat:	O.D.4.5 × L55 mm
Probe MP-35 Mouse:	O.D.3.5 × L50 mm
REFERENCES: Bartos, L.(1975). <i>Physiol. Bohemoslov.</i> , 24,427. Bartos, L.(1977). <i>Lab. Anim.</i> , 11,53-55 Bartos, L.(1977). <i>Lab. Anim.</i> , 11,57-58 M..Koto(1987). <i>Exp. Anim.</i> , 36(2),151-156. M..Koto(1987). <i>Exp. Anim.</i> , 36(2),195-198 Teradach,C.(1982). <i>Sci. Tech. Anim. Lab.</i> ,7,49-84	
This device is manufactured by Murumachi-Kikai in Japan imported in Europe by Ugo basile SRL Italy Specifications are subject to change without notice.	



P: Proestrus



Δ : Changes of EIV during estrus cycle in the rats. EIV shows high value at proestrus stage and periodical alteration concurrently with estrus cycle.
 M. Koto (1987), *Exp. Anim.*, 36(2), 195-198

