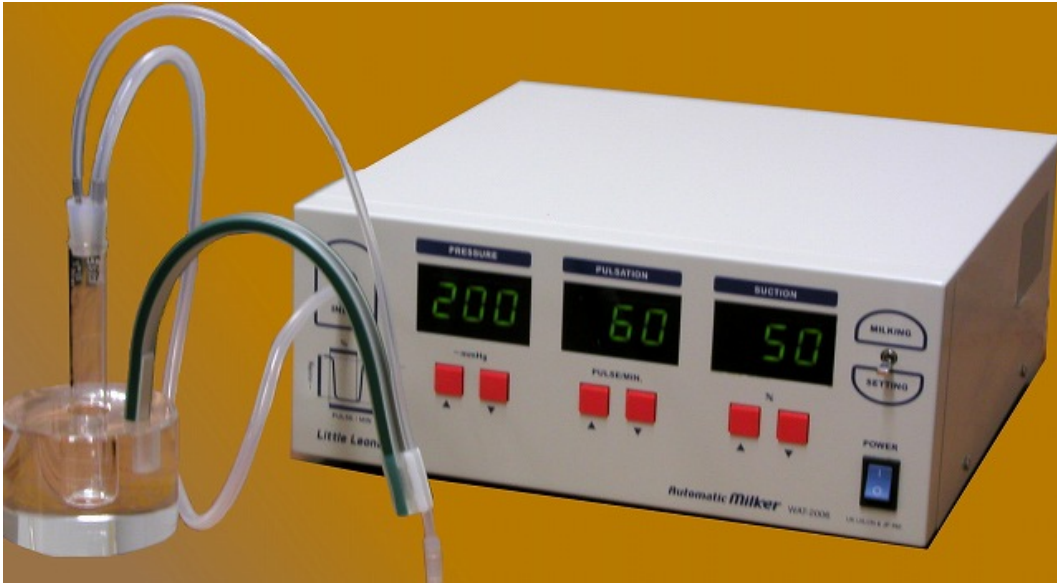


## MODEL WAT-2006

### AUTOMATED MILKER FOR RATS & MICE



### INTRODUCTION

Environmental pollution, in particular carcinogenic substances and endocrine disrupting chemicals, has become a major worldwide problem in recent years. The influences of such chemicals on a baby through breast milk or cow milk are of great concern. The ability to gather milk from the rat, a widely used experimental animal, may aid in elucidating the effects of such chemicals on infants and their development. To test the composition of rat milk, milk is typically gathered from the stomachs of rat pups that have nursed once since it is difficult to gather milk directly from teats of the mother rat. Milk gathered from the stomach mixes with saliva and gastric juice and is altered by decomposition and digestion thus is unlikely to accurately reflect the actual composition. Accordingly, an automated experimental milker was produced to eliminate these problems. It is able to milk lactating mother by alternating negative pressure and atmospheric pressure through two solenoid valves attached to a microcomputer and a vacuum pump. (Excerpt from J. Vet. Med. Sci. 65(5): 557-562, 2003)

Therefore, WAT-2006 Automated Milker can be a powerful tool for the elucidation of carcinogenic substances and endocrine disrupting chemicals. It can also be used for the studies of food safety or drug development.M

This product was developed by Professor Toshi Watanabe, D.V.M., Ph.D., Dept. of Veterinary Biochemistry College of Bioresource Sciences Nihon University in cooperation with NUBIC (Nihon University Business Incubation Center).

## MAIN FEATURES

- Lightweight and portable.
- It can be used for both rat and mouse.
- Ideal for the elucidation of carcinogenic substances and endocrine disrupting chemicals.
- Operation is simple.



Separation of Babies from Mother



Oxytocin Injection



Milking



Collected Milk

## SPECIFICATIONS

MAIN UNIT	
Pressure Range	(-)100 - 200 mmHg (by -5 mmHg steps)
Pulsation	40 - 70 pulse/min (by 1 pulse/min steps)
Suction	50 - 70 % (by 5 % steps)
Power Requirements	100 or 200V AC 50/60Hz (Please specify voltage when ordering.)
Instrument Dimensions	W275 x D290 x H115 mm
Weight	4.5 kg

The Standard System Includes:	
WAT-2006 Main Unit	1
TC-2 Teat Cup	2
Teat Cup Washer(Aspirator not included.)	1
MT-2 Milk Tubing	2
ST-1 Suction Tubing	1
MS-2 Milk Tube Stand with Milk Collection Test Tube	1
Flexible Arm	1

Specifications are subject to change without notice.