



# pipetmaX®

Maximize reproducibility  
of your biological sample prep



qPCR

PCR

ELISA

KINASE ASSAYS

CELL BASED  
ASSAYS

NGS  
LIBRARY  
PREPARATION

PROTEIN  
ASSAYS

CUSTOM LH

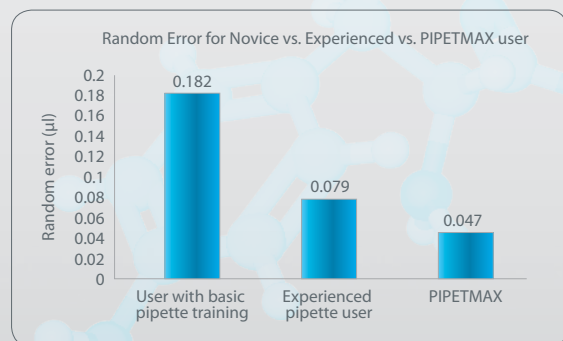
ENZYMATIC  
REACTIONS



# How can PIPETMAX assist your lab?

## Are you preparing all of your samples manually?

Often done incorrectly, pipetting can be tedious, complex and error prone leading to variability, repeat experiments and poor results.



10 dispenses from three different technicians were measured gravimetrically.

## PIPETMAX can help.

PIPETMAX will let you advance your science and increase the pace of your experiments. Since you won't be tied down by routine pipetting tasks, you will be able to focus on what is really important to your research – scientific analysis and publications.

Simple kits allow one PIPETMAX to run a multitude of different applications.

- qPCR
- PCR
- ELISA
- Kinase assays
- Cell based assays
- NGS library preparation
- Protein assays
- Custom LH
- Enzymatic reactions



In Madison, WI PIPETMAX is assisting on toxicity profiling. Bringing consistent, reliable pipetting to this challenging, 384-well plate experiment.

# What can PIPETMAX do for you?

**+** MAXimize **pace** and **capabilities** with the ultimate lab assistant

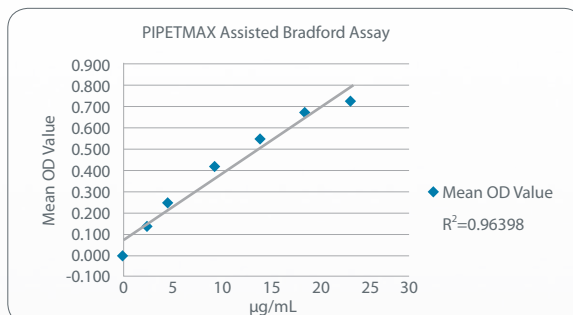
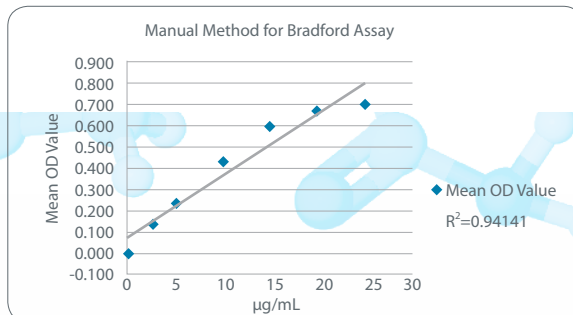
**+** MAXimize **consistency** in routine pipetting tasks

**+** MAXimize **reproducibility** in biological assays

## Is pipetting technique getting in the way of your reproducible results?

When preparing biological samples, you need an assistant you can trust and PIPETMAX is the ultimate lab assistant - focused on consistency. Numerous technical replicates are often included in the experimental design in order to compensate for user inconsistencies, however that wastes samples, time and reagents. PIPETMAX prepares every assay with proven consistency, delivering high precision and accuracy in routine pipetting tasks.

PIPETMAX out-matches the consistency of even experienced pipettors. Just imagine what this improved precision throughout an entire experiment would mean for your next publication.



Manual vs PIPETMAX Bradford Assay (standard curves at 595nm)

## Versatility with PIPETMAX:

- Standard kit methods from any manufacturer, MagBead methods, custom methods
- Multitude of different applications: qPCR, NGS library prep, cell assays & other liquid handling tasks of your choice
- Various samples: tissue culture, microorganisms, body fluids, tissues
- Small reaction volumes
- Many types of labware and devices: 96, 384-well microtiter, strip plate, cell culture formats – no special requirements or trays
- PIPETMAN standards in reproducibility, precision and accuracy
- Easy configuration and run with a simple, touchscreen interface

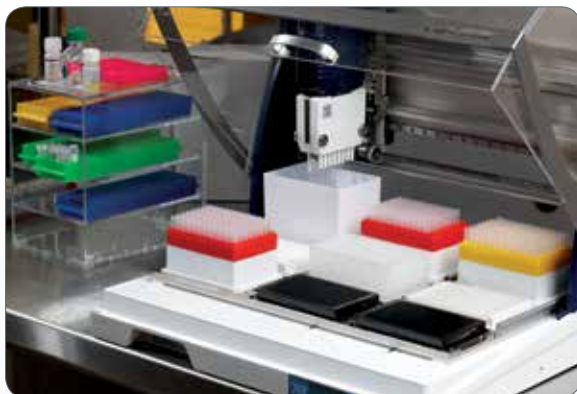


# PIPETMAX is already hard at work!

## ► Example Application: PIPETMAX profiling mechanisms of toxicity

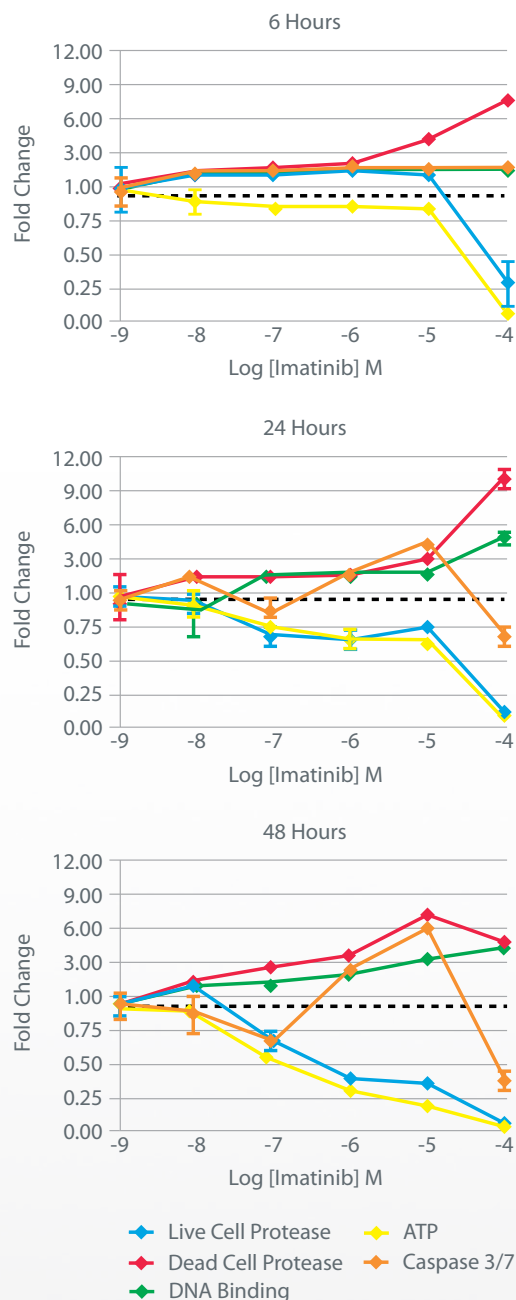
Accuracy and reproducibility are key to verifiable science. Automating the steps of the mechanistic toxicity workflow including cell plating, compound titration and detection reagent addition to 384-well microplates is done with PIPETMAX. Multiple assay plates can be assembled, allowing for the assessment of both time and dose-dependent effects. The detection reagents consist of four assays added simultaneously to the assay plate, each measuring various biomarkers associated with cell viability or cytotoxicity.

Dead Cell Protease, caspase-3/7 and DNA staining are biomarkers associated with cytotoxicity and show an increase in signal over time. Dead cell protease and DNA staining correlate with changes in membrane integrity, while caspase-3/7 correlates with cells undergoing apoptosis.



*"PIPETMAX has been a real asset for us. We can rely on reproducible data from samples prepared on PIPETMAX, which is reassuring as we move forward with our research."*

## Reliability • Accuracy • Reproducibility



Apoptotic profile (K562 cell line, a model for CML), plotted as fold change in biomarker signal over untreated vehicle control. The tyrosine kinase inhibitor Imatinib, brand name Gleevec (Novartis), targets the mutant bcr-abl kinase found in leukocytes of patients with Chronic Myelogenous Leukemia (CML).



# What's it like to work with PIPETMAX?

trilution<sup>®</sup>  $\mu$

With pre-configured or customizable protocols, PIPETMAX and TRILUTION micro let you do your own thing

## 1. Select protocol

Define your routine pipetting tasks in the wizard-driven software.

## 2. Edit variables

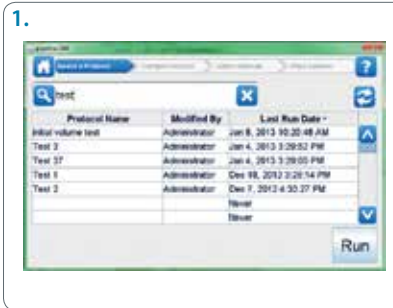
Download onto your PIPETMAX.

## 3. Tray set-up

Configure the protocol through a simple touchscreen interface.

## 4. Run

PIPETMAX guides you through hardware setup, then runs while you work on more important things.



 **GILSON<sup>®</sup>**



# Meet maX – your new lab assistant

## MAXimize consistency

with the precision and accuracy only an automated lab assistant can provide.

## MAXimize capability

and increase your lab's pace by making procedural errors a thing of the past.

## MAXimize your options

with a platform-independent solution that works with a variety of different reagents and kits.

Affordable technology at a small price that you'll easily get back in time and convenience.



## It's all here:

Accuracy • Consistency • Versatility • Reproducibility



### No more user variation.

Free yourself from tedious pipetting jobs and free your results from inconsistencies due to pipetting errors.



### PIPETMAN inside.

With PIPETMAN inside, you can trust your pipetting to be reliable and consistent—plate to plate, lot to lot, time after time.



## MAXimize efficiency

by removing yourself from routine pipetting and focusing on science.

## MAXimize your space

with a solution that fits on your lab bench and works next to you.

## MAXimize traceability

with simple, automated run reports.



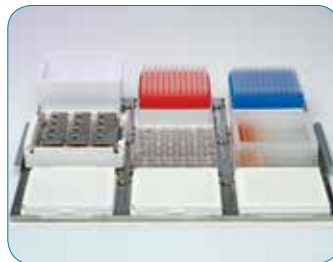
Designed to perform common pipetting tasks and protocols.

Download pre-developed, validated protocols with simple configurations.



**A truly open system:**  
use any reagent,  
any protocol.

Configure and customize your run using any reagent and any protocol you want. The hardware and software are built to be customizable.



**Exchangeable heads,**  
removable tray.

Hardware can be customized to suit your methods and the pipette heads can be calibrated like PIPETMAN.

**GILSON®**





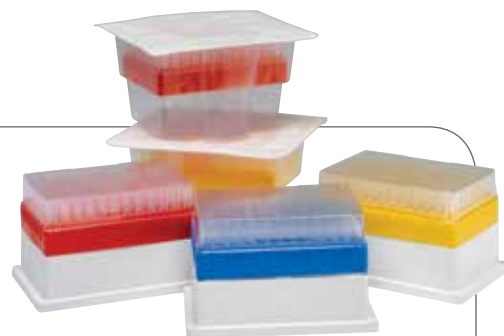
# Tips and Accessories

**The BLISTER REFILL** is the new PIPETMAN TIPS packaging, specially designed to be cost effective and environmentally friendly while maintaining the highest quality of standards.

- More convenience: just open the lid and pick the rack up.
- More environmentally-friendly: uses less plastic and reusable
- More savings on tips: no need to pay for the box
- Use the same tips for manual pipettes and PIPETMAX

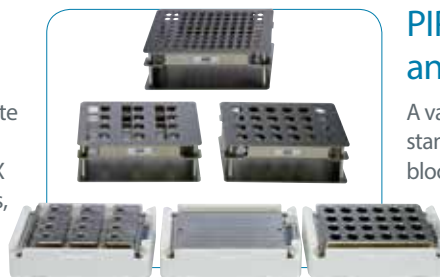
BLISTER REFILLS are available to cover volume ranges from 1 to 1000  $\mu$ L. They're available with standard, sterilized and sterilized filtered tips.

Special tips validated for use with 384 well plates are also available.



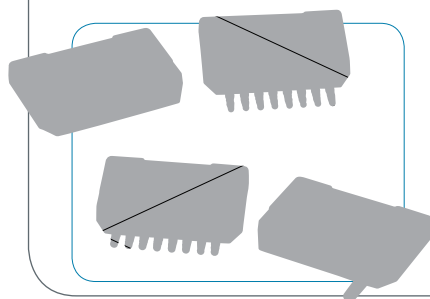
## PIPETMAX Riser with storage

Convenient storage and waste compartment allow you to have tip refills and PIPETMAX accessories at your fingertips, while safely containing your disposed tips.



## PIPETMAX Tube and Plate Racks

A variety of tube racks and plates, standard metal racks, freezer blocks, and circulating chilling block. Customizable racks are available upon request.



## Exchangeable Pipetting heads

A variety of exchangeable calibrated pipetting heads are tailored for your applications needs.



## External Hood Sensor

External sensor, to detect when hood is closed, for use when PIPETMAX is in a hood.

# Service and Support

## Trust: The Gilson Guarantee

For over 60 years, researchers have trusted Gilson pipettes and instruments to enable your research and provide you with the confidence that you can reproducibly extract, purify, isolate and/or clean-up your valuable samples for further analysis. From the legendary PIPETMAN pipettes to HPLC and SPE systems, you can rely on Gilson's extensive experience in sample preparation to deliver simple and flexible solutions, service and support for your lab.

Each of our PIPETMAN pipettes, including the PIPETMAX pipette heads, are inspected by our Quality Scientists and calibrated for accuracy before leaving our facilities so that you can complete your experiments with confidence. Throughout the life of your pipettes and your PIPETMAX, Gilson's 17025 accredited service centers will insure that they continue to perform within our stringent specifications.

Our worldwide support network is ready to assist you with training, application support and service. In addition to our 1-year warranty on all Gilson instrumentation, we offer a range of convenient service options, including on-site instrument service, pipette calibration, and extended service plans to protect your investment. Whether you're a new lab or a major established institution, we stand behind our products and by your side – helping you meet your toughest sample prep challenges and ready to serve our customers.

