

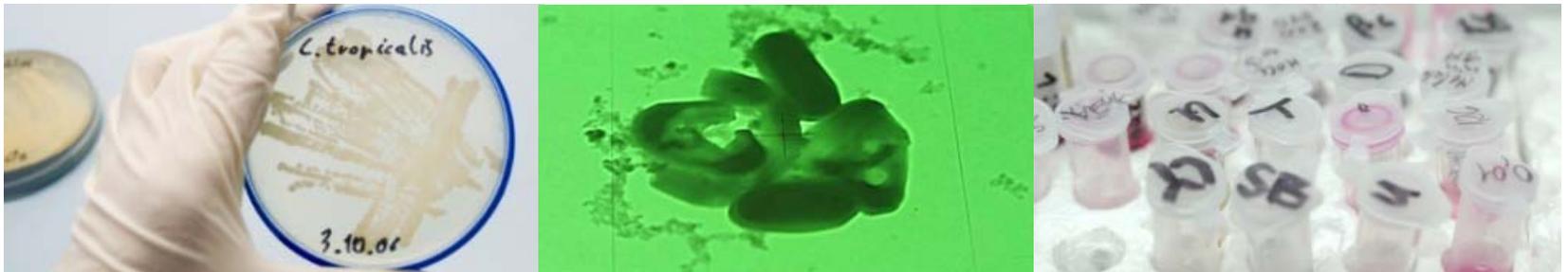
# ClaremontBio Solutions

**MAKING THE EXTRACTION OF DNA EASY™**



# Welcome to next-gen sample prep

ClaremontBio is especially dedicated to implementing next-gen nucleic acid sample preparation technologies within the fields of bioscience research, medical diagnostics, forensics, bioprocessing, biofuel production, agricultural and environmental testing. The innovative and patent-pending products from Claremont BioSolutions have been designed with a focus on ease-of-use, speed, compact-size, safety, and eco-friendly disposability.



The revolutionary flagship sample prep kits from ClaremontBio eliminate the wait-time associated with more complicated DNA extraction kits that typically involve many steps and require the use, washout, and disposal of harsh or harmful chemicals that can often inhibit downstream analysis.

# PureLyse<sup>®</sup> lysis + isolation kit

## What is PureLyse?

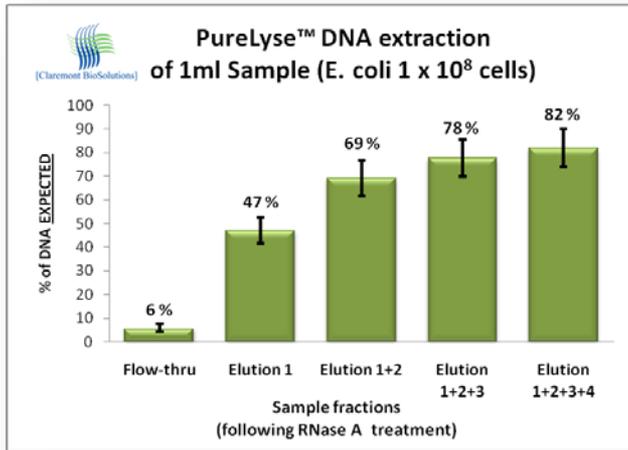
PureLyse<sup>®</sup> kits are an innovative (patent pending), disposable, flow-through, ultra-rapid, all-in-one mechanical cell lysis and nucleic acid extraction device. This kit is customizable for use with syringes, pipette tips, and/or tubing on the inlets and outlets, allowing for researchers to integrate PureLyse into their current extraction workflow.



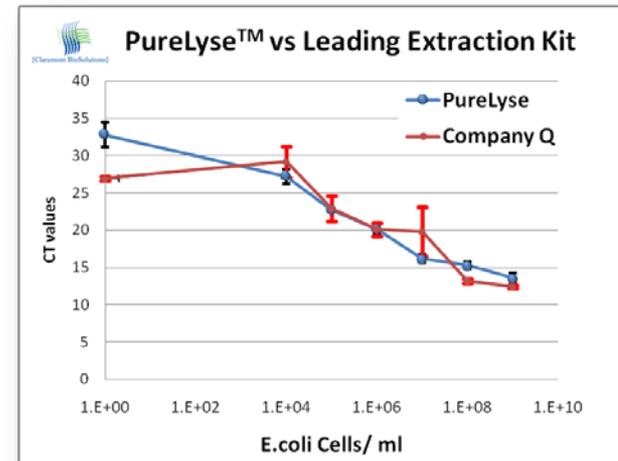
## Why PureLyse?

Key benefits for the PureLyse<sup>®</sup> kits are: Completely disposable, lightweight and highly compact, no need for harsh chemicals or wash steps, no need to purchase additional laboratory equipment, and lysis and isolation within 2 minutes for PCR ready samples.

# PureLyse<sup>®</sup> Extraction Data



**Figure 1. Yield of DNA from each fraction, the sample flow through and four 150 ul elutions, as percent of DNA predicted from the cell count. Each fraction was treated with 1ug Rnase A. The control Lambda DNA used for quantitation was also stained with and without with Rnase A treatment. The average yield from all fractions totaled 88% of the theoretical amount of total DNA with 82% of the DNA in the sum of the four elutions. Replicates = 5.**

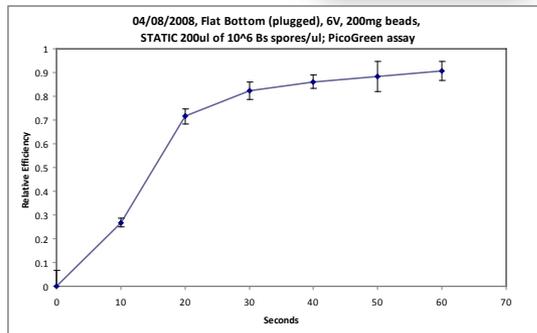


**Figure 2. PureLyse<sup>®</sup> to PCR. E.coli cells were titrated in 1 ml samples of binding buffer from 1x10<sup>9</sup> to 1x10<sup>4</sup> cells/ml. Each PureLyse™ sample was processed under five minutes. The samples processed by the kit from Company Q took four hours. Sample were eluted in 200 ul and 5 ul of were transferred to PCR by light cycler. N= 3 replicate per titer.**

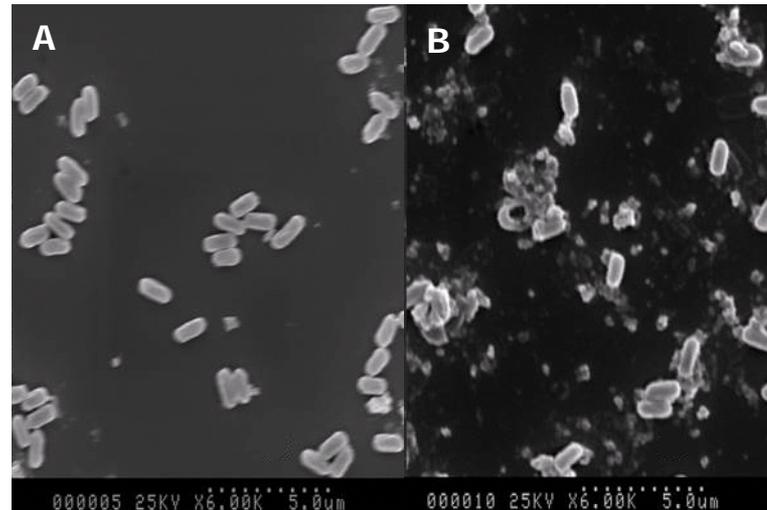
# OmniLyse<sup>®</sup> Kits

- For researchers or clinicians who may be simply interested in rapid cell disruption for down-stream analysis of proteins or small molecules, ClaremontBio is offering OmniLyse<sup>®</sup> kits as a stand-alone disposable cell-disruptor that can be powered by either a portable AAA battery pack or USB cable.

OmniLyse<sup>®</sup>  
V-Syringe 2  
configuration



OmniLyse<sup>®</sup> is capable of rapid lysis of hard-to-lyse cells such as *B. subtilis* spores (>80% lysis can be achieved in just 40 seconds.)



**Electron micrographs of *B. subtilis* spores processed using OmniLyse. Panel A: Unlysed spores. Panel B: Single 80 ul aliquot of spores treated for 40 second in static-mode.**

# How to order PureLyse<sup>®</sup> / OmniLyse<sup>®</sup> Kits

1. Select the system that best fits your research.

## V-Syringe 1

- Single Syringe with Luer-Lock Inlet
- Rigid Tubing outlet
- Binding and Elution Buffer (For PureLyse<sup>®</sup> kits)
- Power Source (Battery Pack or USB cable)
- Refill Kits of 6 Cartridges are available

## V-Syringe 2

- Dual-Syringe connection to Luer-Lock in let and outlet to contain samples
- Binding and Elution Buffer (For PureLyse<sup>®</sup> kits)
- Power Source (Battery Pack or USB cable)
- Refill Kits of 6 Cartridges are available

2. Contact us via the internet or phone and one of our sales representatives will assist you with processing your order.

# Key Contacts



**MAKING THE EXTRACTION OF DNA EASY™**

## Contact Us To Order

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Upland, CA 91786

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Fax: (909) 946-1132

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Web: [www.ClaremontBio.com](http://www.ClaremontBio.com)



Lysis and Isolation technology is rapidly changing and subsequently, more research dollars are spent trying to find methods instead of answers. Don't let your research fall to the wayside. Visit [www.claremontbio.com](http://www.claremontbio.com) and browse our selection of kits for rapid and efficient solutions to your sample preparation needs.