

The logo for Autolab HBH. The word "Autolab" is in orange, with a small "TM" symbol to its upper right. To the right of "Autolab" is a stylized icon of a laboratory flask with a red and green spiral inside. Below "Autolab" are the letters "HBH" in a large, bold, green font. A horizontal bar with a gradient from orange to green is positioned below the logo.

AutolabTM
HBH

Autolab HBH Kit

Instructions For Use

Research Use Only

HBH-001

Product Description

The Autolab HBH Kit provides a quick and efficient sample prep method from various matrices such as swabs, urine, soil, etc.

Autolab HBH effectively lysis organisms and inactivates macromolecular PCR inhibitors such as nucleases by leveraging extreme heat and HBH reagents that are optimized to inactivate PCR inhibitors and protect free nucleic acids. The Autolab HBH workflow is technically simple, as it has only two steps:

1. Heat up to 1ml of sample in the HBH bullet.
2. Briefly centrifuge to pellet additives.

The resulting supernatant is then ready for RT-PCR, as well as additional molecular assays.

Before You Begin

Important: Read the Autolab HBH Instrument User Manual and Instructions for Use for complete information.

Provided Materials

- 25 Autolab HBH bullets with pre-loaded lyophilized reagents
- Instructions for Use (IFU)

Specifications

Sample types:

- Swabs
- Urine
- Soil
- Homogenate
- Plant
- Whole blood, serum and plasma

*Other sample types have not been tested

Known sample buffer compatibility:

- AMDI Sample Buffer
- 1XTE
- UTM
- M4RT

Sample volume input:

- Kit HBH-K01: 300 – 600uL
- Kit HBH-K02: 700 – 1000uL

Sample volume output:

- 60% of starting volume

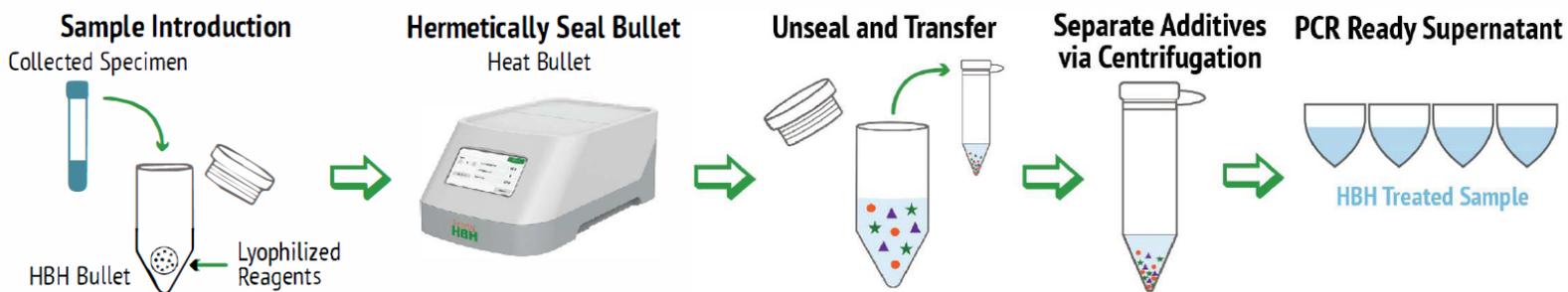
Equipment needed (not provided):

- Microcentrifuge
- Microcentrifuge tubes
- Vortex

Autolab HBH Workflow

Standard Workflow

- The standard Autolab HBH work-flow consists of two steps:
 1. Heat up to 1ml of sample in the HBH bullet.
 2. Briefly centrifuge to pellet additives.
- The supernatant is then ready for RT-PCR, as well as additional molecular testing.



Selected Workflows

The following protocols are provided as references or starting points for your experiments. They do not represent an exhaustive list. The Autolab HBH serves as a flexible tool to streamline sample preparation for a variety of research applications.

Candida albicans in Oral Swab

1. Add room temp sample to each bullet
2. Adjust the Autolab HBH setting as indicated below:
 - Temp: 130°C
 - Hold Time: 0sec
 - Sample Volume: 400uL
3. Load HBH bullet on Autolab HBH instrument and heat.
4. Centrifuge post-HBH bullet for at least 30sec at 3500 x g.
5. Transfer the content of each bullet to a microcentrifuge tube and centrifuge for at least 30sec at 3500g.
6. Transfer supernatant to a new tube. Supernatant is ready for downstream molecular testing.

Selected Workflow Continued

Urine

1. Centrifuge room temp urine sample (1 mL) at 3,000 x g for 10 mins
2. Decant supernatant without disturbing the pellet
3. Resuspend pellet in choice of buffer
4. Adjust the Autolab HBH setting as indicated below:
 - Temp: 130°C
 - Hold Time: 0sec
 - Sample Volume: 400uL
5. Proceed with steps 1 – 5 from the standard protocol

Fecal

1. Using a flocked swab, take a small portion of fecal sample
2. Resuspend sample in choice of buffer, mix well and discard the swab
3. Adjust the Autolab HBH setting as indicated below:
 - Temp: 130°C
 - Hold Time: 0sec
 - Sample Volume: 400uL
4. Proceed with steps 1 – 5 from the standard protocol

Bacillus Subtilis in Soil

1. Resuspend room temp soil sample in buffer and vortex
2. Centrifuge sample at least 15 mins at 3,000 x g
3. Add only the supernatant to the HBH bullet
4. Adjust the Autolab HBH setting as indicated below:
 - Temp: 130°C
 - Hold Time: 0sec
 - Sample Volume: 400uL
5. Load HBH bullet on Autolab HBH instrument and heat
6. Centrifuge post-HBH bullets for at least 30sec at 3500 x g
7. Transfer the content of each bullet to a microcentrifuge tube and centrifuge for at least 30sec at 3500g
8. Transfer supernatant to a new tube. Supernatant is ready for downstream molecular testing

Kit Ordering Information

Sample Volume	Catalog No.	# of Autolab HBH Bullets
300 – 600uL	HBH-K01	25
700 – 1000uL	HBH-K02	25

Instrument Ordering Information

Autolab HBH Instrument: HBH-A01

Customer Support

If you have any questions regarding the use of this product or if you want to report a test problem, please contact Autonomous Medical Devices Incorporated Customer Support at +1-657-660-6800 or customerservice@amndilabs.com

Intellectual Property

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Autonomous Medical Devices Incorporated
3511 W Sunflower Ave
Santa Ana, CA 92704 USA
(657) 660-6800
customerservice@amndilabs.com
www.AutolabHBH.com

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