

# EVOLUTE. HYDRO

## Solid Phase Extraction Plates with In-Well Hydrolysis Capability

EVOLUTE. HYDRO solid phase extraction plates combine robust, high quality EVOLUTE SPE sorbents with Hydro frit technology, enabling effective in-situ in-well hydrolysis of urine samples. Sample clean-up is performed in the same plate, without the need to transfer samples, saving time and reducing risky sample handling steps.

### Streamlined Sample Processing

The plates contain the Hydro frit technology system, which reliably holds up sample and hydrolysis enzyme during incubation at elevated temperatures, and reduces clogging during subsequent clean up steps.



By combining Hydro frit technology with water wettable EVOLUTE sorbents, EVOLUTE HYDRO SPE plates allow the hydrolyzed sample to be loaded directly onto the SPE bed for clean-up. Conditioning and equilibration steps are eliminated, again savings time and reducing costs.

Eliminating the need for off-line hydrolysis leads to significant time saving and reduction of sample handling, reducing potential errors and sample losses.

10 mg formats also allow analyte elution in very low volumes, allowing for no-blow down procedures.

#### In-Well Hydrolysis



#### Load



#### Wash



#### Elute

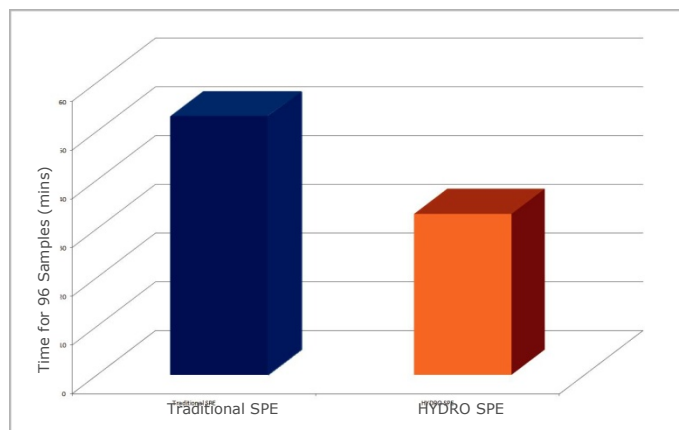


- Interferences
- Analyte of interest
- Enzyme

**Figure 1.** EVOLUTE. HYDRO procedure: in-well hydrolysis and sample clean-up.

## Reduced Processing Time

Compared to traditional SPE procedures, EVOLUTE® HYDRO can reduce sample processing time by 20 minutes for 96 samples.



**Figure 2.** Automated extraction on Biotage. Extrahera™ using traditional SPE takes 53 minutes for 96 samples. With EVOLUTE® HYDRO this time is reduced to 33 minutes.

[30 mg format, using equivalent extraction methodology. Full procedure including hydrolysis, eluent evaporation and reconstitution: 143 mins (traditional SPE) 123 mins (HYDRO SPE)].

## Ordering Information

| Part Number   | Description                    | Quantity |
|---------------|--------------------------------|----------|
| 601-0010-PZ01 | EVOLUTE® HYDRO CX 10 mg Plate  | pk/1     |
| 601-0030-PZ01 | EVOLUTE® HYDRO CX 30 mg Plate  | pk/1     |
| 600-0010-PZ01 | EVOLUTE® HYDRO ABN 10 mg Plate | pk/1     |
| 600-0030-PZ01 | EVOLUTE® HYDRO ABN 30 mg Plate | pk/1     |



## No Compromise on Hydrolysis Efficiency

Because the HYDRO frit technology holds all of the sample above the sorbent bed during the hydrolysis process, hydrolysis efficiency when using EVOLUTE HYRO SPE plates is equivalent to off-line hydrolysis under the same conditions. Existing hydrolysis procedures can easily be transferred to EVOLUTE HYDRO SPE plates.

## Excellent Sample Clean-up

Whether extracting large multidrug panels or performing more targeted applications, EVOLUTE HYDRO SPE plates remove matrix components and residual hydrolysis enzyme, leading to cleaner extracts and reduced matrix effects in LC-MS/MS.

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