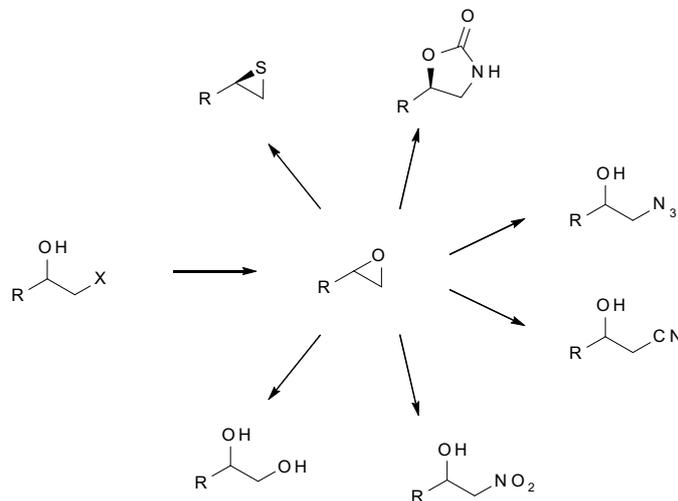


## Reactions of Interest

Codex<sup>®</sup> HHDH Panel Plate Information

- Recommended storage temperature for the plates is -20 °C.
- The plates are from Corning (product number 3961) and can be purchased from VWR (catalog number 29445-166).

Codex<sup>®</sup> HHDH Panel Materials and Reagents

- Two 96-well plates, provided.
- DMSO, not provided.
- 100 mM Tris-SO<sub>4</sub> buffer, pH 7, not provided.

Codex<sup>®</sup> HHDH Panel Screening Procedure

1. Defrost plates, which contain 100 μL lysate per well, at 4 °C. Centrifuge (4000 rpm, 2 min, 4 °C).
2. Assay setup (final reaction volume 300 μL per well):
  - a. Unseal the plates.
  - b. Add the substrate solution to each well.
  - c. Seal the assay plate (180 °C, 3 sec).
3. Shake the plates on titer plate shaker (low speed) at room temperature for 24 hours.

# Codex<sup>®</sup> HHDH Panel

## Screening Protocol

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Reagent Concentration for <u>Epoxyde formation</u>	Volume per well	Volume per plate	Final concentration
Lysate	100 µL	9.60 mL	40% v/v
Substrate solution 75 mM halohydrin 8.3% DMSO Buffer	150 µL	14.4 mL	60% v/v 45 mM halohydrin 5% DMSO Buffer
Total Volume	250 µL	24.0 mL	

Reagent Concentration for <u>Epoxyde formation</u>	Volume per well	Volume per plate	Final concentration
Lysate	100 µL	9.60 mL	40% v/v
Substrate solution 10 mM epoxyde 20 mM nucleophile Up to 8.3% DMSO Buffer	150 µL	14.4 mL	60% v/v 10 mM epoxyde 20 mM nucleophile Up to 5% DMSO Buffer
Total Volume	250 µL	24.0 mL	

### Codex<sup>®</sup> HHDH Panel Work-Up and Analysis

1. Reaction quenching:
  - a. Centrifuge the assay plates (4000 rpm, 1 min, 4 °C).
  - b. Unseal the assay plates.
  - c. Add 1000 µL of quenching solvent (e.g. acetonitrile, methanol or MTBE) to each well.
  - d. Seal the quenched plates (180 °C, 3 sec).
2. Shake the plates on titer plate shaker (medium-high speed) at room temperature for 20 minutes.
3. HPLC sample preparation:
  - a. Centrifuge the assay plates (4000 rpm, 20 min, 4 °C).
  - b. Unseal the quenched plates.
  - c. Transfer 200 µL of samples from quenched plates to round-bottom shallow well plates (Corning 3365).
4. Seal the shallow well plates (180 °C, 2 sec). Analyze using HPLC method of choice.

For further information or any questions, please contact us at: [sales@codexis.com](mailto:sales@codexis.com)