# Quiock

## **HPLC Detection Protocol**

# **Reagent Preparation**

- 1. Prepare the SAM stock solution (1:10) in NANOpure® water. Store on ice and in the dark.
- 2. Dilute Isoasp-DSIP to 7.5µM in sample buffer. Store on ice.
- 3. Transfer the test samples (75–375pmol/reaction) to duplicate tubes and bring the final volume of each tube to 10µl with sample buffer.
- 4. Dilute SAH to 7.5µM in water. Store on ice.
- 5. Prepare master mix.

Component	Volume per Reaction
NANOpure® water	10µl
Reaction 5X Buffer	10μΙ
SAM stock solution	10µl
PIMT (add last)	10µl_

### **Reaction Protocol**

- 1. Assemble the blank (10µl sample buffer), reference standard (10µl Isoasp-DSIP) or the test samples (10µl for each sample).
- 2. Add 40µl of master mix to each tube and incubate at 30°C for 30 minutes.
- 3. Stop the reactions with 10µl of Stop Solution NR. Centrifuge for 8–10 minutes at 4°C. Store reactions in the dark at 4°C (–20°C for long-term storage).

## **Reverse Phase HPLC Analysis**

- 1. Prepare SAH standard solution (10μl SAH standard, 7.5μM, in 50μl of NANOpure® water).
- 2. Transfer 55µl of each reaction to an autosampler vial and place in the autosampler tray.
- 3. Attach the Synergi™ Hydro-RP column to the HPLC instrument. Equilibrate the resin using the parameters: 10% mobile phase B, at 1ml/minute flow rate.

  Note: Always use a 40µl water blank as the first injection.
- 4. Inject 40μl of each reaction. Begin a gradient to 30% mobile phase B over 5 minutes, followed by a return to 10% mobile phase B over 30 seconds.
- 5. Hold the mobile phase B concentration at 10% for 7.5 minutes to prepare for the next sample.
- 6. For more than 25 samples: Wash the column after the 25th injection using the method described in the Technical Bulletin #TBI001. Inject 40µl of water and then proceed with the remaining samples.
- 7. Integrate the SAH peaks at 260nm and plot the standard curve in pmol versus peak area.

See additional protocol information in Technical Bulletin #TBI001, available online at:

www.promega.com

#### ORDERING/TECHNICAL INFORMATION:

www.promega.com • Phone 608-274-4330 or 800-356-9526 • Fax 608-277-2601



### **Test Preparation**

Prepare and store the 0.1mM SAM solution, the 7.5µM IsoAsp-DSIP and the 7.5µM SAH solution on ice and in the dark.



Transfer test samples to duplicate tubes and bring to 10µl with sample buffer.

Prepare master mix.



**Reaction Protocol** Add 40µl master mix to each reaction.

Incubate for 30 minutes at 30°C.



Add 10µl of Stop solution NR. Centrifuge for 5–7 minutes.

## Reverse Phase HPLC Analysis

Prepare SAH standard sample.



Attach Synergi Hydro-RP Column to the HPLC. Equilibrate the resin with 10% mobile phase B.



Inject 40µl of the reaction onto the column.



Integrate the SAH peaks at 260nm and plot standard curve.





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