

Eicosanoid Primary Standards

We are currently using four primary standards. PGF₂ α , PGE₂, PGD₂, and AA. These standards are obtained from Cayman with accurately determined quantities in 1 mg amounts. Stock solutions were made of each of these by dissolving the compound in the same solvent that Cayman uses to ship the given compound normally. All stock solutions were 500 ng/ μ l (exact).

Compound	Cayman Cat #	Stock Conc.
PGF ₂	16010	500 ng/ μ l
PGE ₂	14010	500 ng/ μ l
PGD ₂	12010	500 ng/ μ l
AA	90010	500 ng/ μ l

From these stocks, a 50 ng/ μ l stock is made and then serial dilutions of this stock (50 μ l plus 450 μ l of ethanol) are made to provide the following Working Dilutions for each standard. 5 μ l of each Working Dilution is then add to 100 μ l of the Internal Standard to give the Final Primary Standard Solutions.

Working Dilutions	Final Primary Standards
50 ng/ μ l	2.38 ng/ μ l
5 ng/ μ l	0.238 ng/ μ l
.5 ng/ μ l	0.0238 ng/ μ l
0.05 ng/ μ l	0.00238 ng/ μ l

A barcode is only generated for the 2.38 ng/ μ l sample.