NSK-S-CAH
Congenital Adrenal Hyperplasia (CAH) Reference Standards

NSK-S-CAH Congenital Adrenal Hyperplasia (CAH) Reference Standards is designed as a calibrator for use in screening, diagnosis and monitoring procedures for metabolic disorders. When used as directed, NSK-S-CAH provides a solution containing steroids at defined concentrations. When combined with techniques such as tandem mass spectrometry (MS/MS), LC/MS, GC/MS, etc., the solution may be used as a calibrator to measure concentrations of steroids in plasma, blood spots, urine and other bodily fluids.

Each vial (packaged as 1 to 10 vials per box) contains only a dry mixture of isotopically labeled steroids. Complete reconstitution in 1 mL of solvent will produce the concentrations presented in the Standards Concentrations table.

**Instructions for Use/Method of Reconstitution**

To reconstitute the NSK-S-CAH Congenital Adrenal Hyperplasia (CAH) Reference Standards solution, the following procedure is suggested: add 1 mL of purified methanol or suitable solvent to the dry mixture in the vial. Vortex the vial manually for one minute then auto-vortex for 30 minutes or until solids are dissolved. Use the same day or store the reconstituted standards in a tightly sealed vial in a freezer. In order to maintain the integrity of the solution, we recommend discarding the solution after one month.

**Standards Concentrations**

<table>
<thead>
<tr>
<th>Reference Standard</th>
<th>Conc. (nmol/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>17α-Hydroxyprogesterone (2,2,4,6,6,21,21,21-D_8)</td>
<td>20.0</td>
</tr>
<tr>
<td>4-Androstene-3,17-dione (2,2,4,6,6,16,16-D_7)*</td>
<td>20.0</td>
</tr>
<tr>
<td>11-Deoxycorticisol (2,2,4,6,6-D_5)</td>
<td>20.0</td>
</tr>
<tr>
<td>21-Deoxycorticisol (2,2,4,6,6,21,21,21-D_8)</td>
<td>20.0</td>
</tr>
<tr>
<td>Cortisol (9,11,12,12-D_4)</td>
<td>100.0</td>
</tr>
</tbody>
</table>

**Price:** $220 (one vial)

**Handling, Storage and Disposal Instructions**

Sealed vials, as received, can be stored at room temperature away from light with a recommended shelf life of two years. The recommended shelf life for methanol solutions is one month when kept in a freezer and away from light. The product should be disposed of properly: in the dry form, as a steroid and in solution as solvent waste.

**Second-Tier Testing for Congenital Adrenal Hyperplasia (CAH)**

The use of standards similar to the NSK-S-CAH Congenital Adrenal Hyperplasia (CAH) Reference Standards has been well documented in the scientific literature with detailed examples in the journal articles referenced below.


For research use only. Not for diagnostic purposes. *Controlled substance. Currently requires DEA license; CIL has applied for exemption.