MAYO CLINIC
Mayo Medical Laboratories

Test Definition: CAHBS

Congenital Adrenal Hyperplasia (CAH) Newborn Screening, Blood Spot

Reporting Title: CAH Newborn Screening, BS
Performing Location: Rochester

Specimen Requirements:

Container/Tube: Local newborn screening card
Specimen Volume: 2 blood spots
Collection Instructions:
1. Do not use device or capillary tube containing EDTA to collect specimen.
2. At least 1 spot should be complete, unpunched.
3. Do not expose specimen to heat or direct sunlight.
4. Do not stack wet specimens.
5. Keep specimen dry.
6. If collection of a new specimen is necessary, let blood dry on the Supplemental Newborn Screening Card (Supply T493) at ambient temperature in a horizontal position for 3 hours.
Forms: If not ordering electronically, submit a Biochemical Genetics Request Form (Supply T439) with the specimen.

Specimen Type	Temperature	Time
Whole blood	Ambient (preferred)	
	Frozen	
	Refrigerated	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
50545	17-OH Progesterone	Numeric	ng/mL	38473-5
50546	Androstenedione	Numeric	ng/mL	53343-0
50547	Cortisol	Numeric	ng/mL	53345-5
50548	11-deoxycortisol	Numeric	ng/mL	53338-0
50549	21-deoxycortisol	Numeric	ng/mL	53341-4
50550	(17OHP+Androstenedione)/Cortisol	Numeric		In Process
50551	11-deoxycortisol/Cortisol	Numeric		45184-9
24053	Interpretation	Alphanumeric		59462-2
24055	Reviewed By	Numeric		N/A

CPT Code: 1 × 83788

Reference Values:

17-HYDROXYPROGESTERONE
Males: <7.1 ng/mL
Females: <4.1 ng/Ml

ANDROSTENEDIONE
<3.1 ng/mL

CORTISOL
>2.5 ng/Ml

11-DEOXYCORTISOL
<10.1 ng/mL

21-DEOXYCORTISOL
<1.7 ng/Ml

(17 OHP + ANDROSTENEDIONE)/ CORTISOL RATIO
<2.51
Note: Abnormal (17 OHP + Androstenedione)/Cortisol Ratio: >2.5 is only applicable when 17-OHP is elevated

11-DEOXYCORTISOL/CORTISOL RATIO
<1.1