



## CAH StripAssay®

### Minimize risks with early and reliable CAH diagnosis

- Congenital adrenal hyperplasia (CAH) is an inherited disorder of steroid hormone synthesis
- Severe forms of CAH cause life-threatening salt-wasting crisis and virilization in newborns
- Appropriate treatment demands early diagnosis
- Hormone testing has a high false positive rate



### Now available: Accurate and earlier results for CAH ViennaLab CAH StripAssay® detects common CYP21A2 mutations

- Confirm CAH earlier to minimize emotional stress for parents and economic burden

- Simple protocol for complex diagnostic questions
- Manual or automated
- No expensive lab equipment required
- Ready-to-use reagents
- Complete CE-certified kit – includes DNA extraction.



## Congenital Adrenal Hyperplasia (CAH)

CAH summarizes metabolic disorders that lead to inadequate synthesis of adrenal steroid hormones (cortisol, aldosterone). Its worldwide incidence is 1:15,000 births. By far the most frequent forms of CAH are caused by mutations in the CYP21A2 gene encoding steroid 21-hydroxylase. CAH symptoms are highly variable and may include virilization of female newborns and life-threatening salt-wasting conditions.

Since early treatment with cortisol derivatives is desirable, CAH newborn screening programs based on 17-hydroxyprogesterone (17-OHP) levels have been introduced in many countries. Neonatal 17-OHP testing is highly susceptible to false positive results, making genetic testing an important confirmatory tool for early and reliable CAH diagnosis.

**11 Mutations detected: P30L, I2 splice (I2 G), Del 8 bp E3 (G110del8nt), I172N, Cluster E6 (I236N, V237E, M239K), V281L, L307 frameshift (F306+T), Q318X, R356W, P453S, R483P**

Gene	Steroid Biosynthesis	Status	Therapy	Therapeutic Success
CYP21A2	Cortisol and aldosterone	Mutated	✓	+++

## The three steps of the CAH StripAssay®

Step	Requirement
1. Amplification: Multiplex PCR-amplification. Simultaneous biotin-labeling	Thermocycler
2. Hybridization: Directly on the StripAssay teststrips	Incubator
3. Identification: Labeled products detected by streptavidin-alkaline phosphatase	Naked eye or scanner & software

Cat.No.  
CAH StripAssay® 4-380 (20 tests/kit)

**ViennaLab offers StripAssays® for a wide range of diagnostic applications. Visit [www.viennalab.com](http://www.viennalab.com)**

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