

ITSI Biosciences Newsletter

In this issue:

- When is DNA maternity test needed?
- How DNA maternity test works.
- What to expect from a DNA maternity test.

When Do You Need a DNA Maternity Test?

DNA maternity tests are less commonly discussed than paternity tests, but they are just as important and vital in situations where confirming the biological relationship between a mother and child is crucial. While maternity is often presumed based on childbirth, there are many scenarios, such as inadvertent or deliberate switching of babies, that may require scientific verification of maternity. This newsletter explores the situations in which a DNA maternity test is necessary and what to expect from the process.

1. Surrogacy or In Vitro Fertilization (IVF) Cases

In cases of surrogacy or IVF, a DNA maternity test can confirm that the child carries the intended mother's genes. Surrogacy arrangements can involve either the surrogate mother's egg or a donor's egg fertilized by the intended father or sperm donor. IVF clinics typically handle multiple clients at once, and accidental mix-ups have been reported. If any uncertainty arises about the child's biological origins, a DNA maternity test can provide answers by confirming whether the intended mother is indeed the biological parent of the child.

2. Hospital or Birth Mix-Ups

Although rare, hospital errors during childbirth, such as babies being switched or mixed up, have been known to occur. Sometimes the switch is deliberate at other times it is not. If a switch is suspected, parents can verify their child's biological identity by ordering a DNA maternity test. A DNA maternity test will offer a conclusive proof, easing concerns and providing peace of mind to all parties involved. The test can also help resolve doubts in cases where paperwork or medical records might be incomplete or incorrect.

3. Adoption or Reuniting with Biological Family

In adoption cases, a DNA maternity test may be required to verify the biological relationship between a mother and child. Sometimes, adoptive families or children who were adopted seek to establish a connection with their biological mother later in life. DNA testing can play an essential role in confirming biological ties. Similarly, birth mothers who have reunited with a child they placed for adoption may use a maternity test to validate their biological connection.

Adoption agencies or legal authorities may also require DNA maternity testing during the adoption process, particularly in cases involving international adoption or incomplete documentation.

4. Legal or Custody Disputes

Legal disputes involving custody or citizenship may necessitate a DNA maternity test. For example, if a mother's identity is in question in a custody battle or immigration case, a maternity test can definitively prove a biological link. Legal systems around the world often rely on DNA evidence to resolve issues of citizenship, inheritance, or parental rights. Courts may order a DNA maternity test to establish the identity of the biological mother and make informed legal decisions.

5. Child Trafficking or Missing Children's Cases

A DNA maternity test can be vital in child trafficking or missing children cases. If authorities recover a missing child or suspect a child has been trafficked, a DNA maternity test can reunite children with their biological mothers. These tests can help confirm the child's identity when paperwork is missing or falsified. The accuracy of DNA testing plays a key role in ensuring that children are returned to their rightful families.

Although not as popular as DNA paternity test, the DNA maternity test is equally important. It is a very reliable method to unequivocally establish the biological relationship between a mother and a child...



6. Maternity Fraud

DNA maternity testing can be used to detect maternity fraud. Maternity fraud is a type of deception or fraudulent activity involving the falsification or misrepresentation of information related to pregnancy, childbirth, or parental status. It is carried out to deceive a spouse or to obtain financial or other benefits. For example, a) Individuals may falsify documents or lie about a pregnancy to claim paid maternity leave or other benefits without actually being pregnant or giving birth, b) individuals may create fake birth certificates, adoption papers, or other documents to claim benefits intended for parents, such as tax credits, government assistance, or insurance benefits c) people misrepresent their status in surrogacy or adoption arrangements, either to deceive agencies or gain financially. A surrogate or adoptive mother may attempt to claim maternity benefits despite not physically carrying or delivering the child, d) doctors and hospital staff, or others may fabricate maternity records or provide false maternity testimony to perpetuate maternity fraud for financial gains. Maternity fraud is growing in many societies and it is considered a crime in most places. It can lead to penalties, repayment of benefits, and in some cases, criminal charges, depending on the severity and intent of the deception.

7. How Does a DNA Maternity Test Work

A DNA maternity test follows a straightforward process similar to a paternity test. DNA samples are collected from both the alleged mother and child, usually via a cheek swab. The lab then compares the DNA profiles to determine whether there is a biological match between the two. The accuracy of maternity testing is extremely high, typically 99.9% when confirming a relationship and tests can be performed on a new born baby.

Conclusion

A DNA maternity test may be necessary in various circumstances, from surrogacy and hospital mix-ups to legal battles, adoption and maternity fraud cases. The test provides clear, scientific answers when questions of biological motherhood arise. Whether it's for peace of mind or legal proof, the decision to take a DNA maternity test should be based on the specific needs of the situation. Regardless of the reason, this type of test can offer certainty and resolution for families in complex circumstances.

Organizations such as ITSI-Biosciences (www.itsibio.com), the Lagos State DNA & Forensic Center (www.lsdfo.org) and Concurrent Technologies and Services (www.ctsdna.com) offer DNA testing services to help answer different questions in life. Visit their websites to take advantage of their expertise.