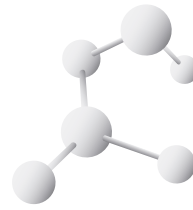




family



**ALPHABIOLABS**  
SETTING THE STANDARD

*"We value local service and friendly staff"*

Andrew Otto – Brown Turner Ross Solicitors

## VARIOUS TYPES OF DNA TESTS AND THE TESTING PROCEDURE

### WHAT IS DNA TESTING?

DNA (deoxyribonucleic acid) is the body's genetic "blueprint". It is a long thread like molecule shaped similar to a twisted ladder (a double helix) that carries the genetic code which determines our individual characteristics. DNA is found in almost all of the many cells that make up the human body.

We offer a broad range of DNA testing services. Whether you seek to establish Paternity, Maternity or to prove siblingship for legal definition or peace of mind, we are able to provide the appropriate DNA testing service at competitive rates, professionally and confidentially, usually within 3 to 5 working days. Express testing is available within 8 hours, of receipt of samples into our laboratory.

### DNA TESTING

#### WHAT RELATIONSHIPS CAN WE TEST FOR?

Paternity Testing • Maternity Testing • Sibship Analysis • Grandparentage Analysis • Y Chromosome Analysis

#### PATERNITY TEST

A paternity test is conducted to prove whether or not a male is the true biological father of another individual. DNA testing is completed by comparing fifteen regions of DNA, known as Short Tandem Repeat (STR) Markers which vary between unrelated individuals. As 50% of a child's DNA is inherited from its mother and 50% from the father, if a male is the true biological father of the individual in question the child will share at least 50% of these markers.

##### POSITIVE RESULT:

Probability of paternity >99.99%

This result is very strong evidence of paternity.

##### NEGATIVE RESULT:

The probability of paternity is 0%.

#### MATERNITY TEST

A maternity test is completed in the same way as a paternity test and is used to prove a female is the true biological mother of an individual.

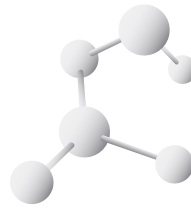
##### POSITIVE RESULT:

Probability of Maternity >99.99%

This result is very strong evidence of maternity.

##### NEGATIVE RESULT:

The probability of maternity is 0%.



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Mary Holmes – 1 Law Solicitors

## **SIBLINGSHIP TEST**

Sibling DNA testing is used to determine whether two people have biological parents in common, when the parents are not available for testing.

Full siblings - Full siblings share both biological parents.

Half siblings - Half siblings share only one biological parent, either the mother or the father.

Sibling analysis is not as conclusive as paternity testing and will provide a statistical likelihood of whether two individuals are true biological siblings.

As in a paternity test a DNA profile made up of a number of DNA markers, is produced for each person. The DNA profiles of the two people are then compared. On average, full siblings will share more DNA markers than half siblings, and half siblings share more DNA markers than unrelated people. The statistical analysis performed will determine the most likely relationship given the DNA results.

### **POSITIVE:**

Probability of Sibship from 90.00 to > 99.99% - This result is very strong evidence of full/half-siblingship.

### **INCONCLUSIVE:**

Probability of Sibship from 10.00 to < 89.99% - This result is inconclusive for the relationship tested.

### **NEGATIVE:**

Probability of Sibship from 0.00 to < 9.99% - The results obtained are not supportive of the relationship tested.

## **IMMIGRATION TESTING**

Alpha Biolaboratories has extensive experience of carrying out relationship analysis for immigration purposes and our services are used by the UK immigration authorities. Please contact our customer services team for details of the specific procedures for immigration testing.

We are in regular contact with British Embassies worldwide to help with sample collections from people wishing to gain entry into the UK from countries including China, Afghanistan and Bangladesh.