

UGT1A1 Test

The UGT1A1 gene encodes the enzyme UDP-glucuronosyltransferase, crucial for bilirubin conjugation in the liver. Variants in this gene that result in reduced enzyme function may impact drug metabolism, potentially increasing susceptibility to adverse effects from medications such as irinotecan. UGT1A1 testing can assist with identifying individuals at a higher risk of toxicity, allowing the doctor to further personalise their treatment plan.

Reduced function alleles (e.g: UGT1A1*28) that are inherited in an autosomal recessive manner are a common cause of Gilbert's syndrome. This condition is now understood to cause unconjugated hyperbilirubinemia, due to the presence of two UGT1A1 reduced function alleles.



Turnaround Time

Our Melbourne-based NATA accredited laboratory guarantees results for urgent cases within 3 business days from sample receipt.



The myDNA Report

The UGT1A1 report lists the gene variations found in a patient and offers considerations on selecting dosages based on current evidence-based guidelines.

Methodology

Pharmacogenomic testing is performed to detect the following DPYD variants:

*28

*6

Sample type: Buccal

We offer a simple cheek swab test that can be done immediately during the consultation, making the process quick and straightforward.

(Results from a buccal swab sample are equally reliable to results from a blood sample).

Process

Testing kit

The UGT1A1 kit includes:

- Buccal swab.
- Request form.
- Instructions regarding sample collection.
- Express prepaid return envelope.

Complete the request form for your patient and return with the buccal swab to our lab via the express prepaid envelope for testing.

Result Delivery Method

Results are securely delivered through the myDNA partner portal or via encrypted email.

Ordering the test and request pricing

To order UGT1A1 kits for your clinic please contact our customer service team on **1300 436 373** or email at clinical@mydna.life.

These kits are provided to the clinic at no charge. The patient's payment details are required to be provided on the request form.

Clinical Team

The myDNA clinical team consists of qualified clinical geneticists, pharmacists and pharmacologists with expertise in the clinical application of pharmacogenomics.

They're happy to assist with any questions. Simply call us on: **1300 436 373** or email us at clinical@mydna.life.

Patient Privacy and Security

All DNA remains the property of the patient. DNA samples are de-identified upon arrival at our laboratory to ensure all DNA remains anonymous, and our DNA analysis technique cannot be used to identify individuals or their relatives. myDNA will never share any patient data with third parties without written consent and uses secure encrypted servers to protect it.

About myDNA

myDNA is an Australian company specialising in personalised medicine, particularly pharmacogenomics testing. Our state-of-the-art laboratory, based in South Yarra, Melbourne, performs pharmacogenomic testing to provide insights into how specific variants may affect medication response, helping healthcare providers tailor treatment plans for optimal outcomes.

For more information, please visit www.mydna.life/ugt1a1-testing/