

P450 Test - All Inclusive Module SERVICE SPECIFICATION SHEET

If you have any queries regarding the test specifications outlined below please contact Lab21 Customer Service to discuss prior to sending samples for analysis.

Intended Use: To provide a service to detect polymorphisms within the Cytochrome P450 genes 2D6, 2C9 or 2C19. The service will evaluate the Patient's current drug regime and lifestyle factors against their genetic CYP results using recent scientifically validated information to improve drug therapy. This will include a Personalised Prospective Drug Profile Assessment Chart and a Personalised Drug Management Guide for a panel of over 300 drugs (this list is continually updated). Also available is access to an on-line database for evaluating prospective changes in an Individuals' drug regime.

Technical Information: The Lab21 Cytochrome P450 Detection Test is used to identify P450 gene polymorphisms in genes 2D6, 2C9 or 2C19. These genes code for enzymes that metabolise a large number of currently prescribed and over-the-counter medications. The test evaluates the individual's current drug regime and lifestyle factors against their genetic Cytochrome P450 results using recent scientifically validated information to improve drug therapy.

Assay Time: Turnaround: 3 weeks for full Signature Genetics analysis.

Specimen Requirements: This test requires a buccal swab sample. Lab21 will provide suitable testing kits containing buccal swabs and packaging which should be returned for analysis to Lab21 Ltd.

Specimen Handling: See 'Advice for Healthcare Providers – P450 all inclusive module'.

Reporting of Results: Test results will be sent to the ordering physician to be discussed with the patient.

References:

1. Abraham, BK, Adithan, C., Genetic Polymorphism of CYP2D6. *Ind. J Pharmacol* 2001; **33**:147-169
2. Gray IC *et al.* A 2.4 mega-base physical map spanning the CYP2C gene cluster on chromosome 10q24. 1995 *Genomics*. **28**:328-332.
3. De Morais SM *et al.* Gene structure and upstream regulatory regions of human CYP2C9 and CYP2C18. 1993 *Biochem Biophys Res Commun*. **194**:194-201.