

DNA Genotyping

summary



Epistem provides laboratory based services (microarray, NGS and qPCR) and Point of Care (Genedrive®) genotyping tests.

Laboratory Genotyping

Epistem provides global and focussed DNA genotyping services from its GCLP accredited laboratories. We specialise in developing and validating genotyping assays as well as analysing clinical samples.

DNA Microarray Analysis:

- Epistem offers DNA genotyping and SNP analysis using Affymetrix arrays

NGS Analysis:

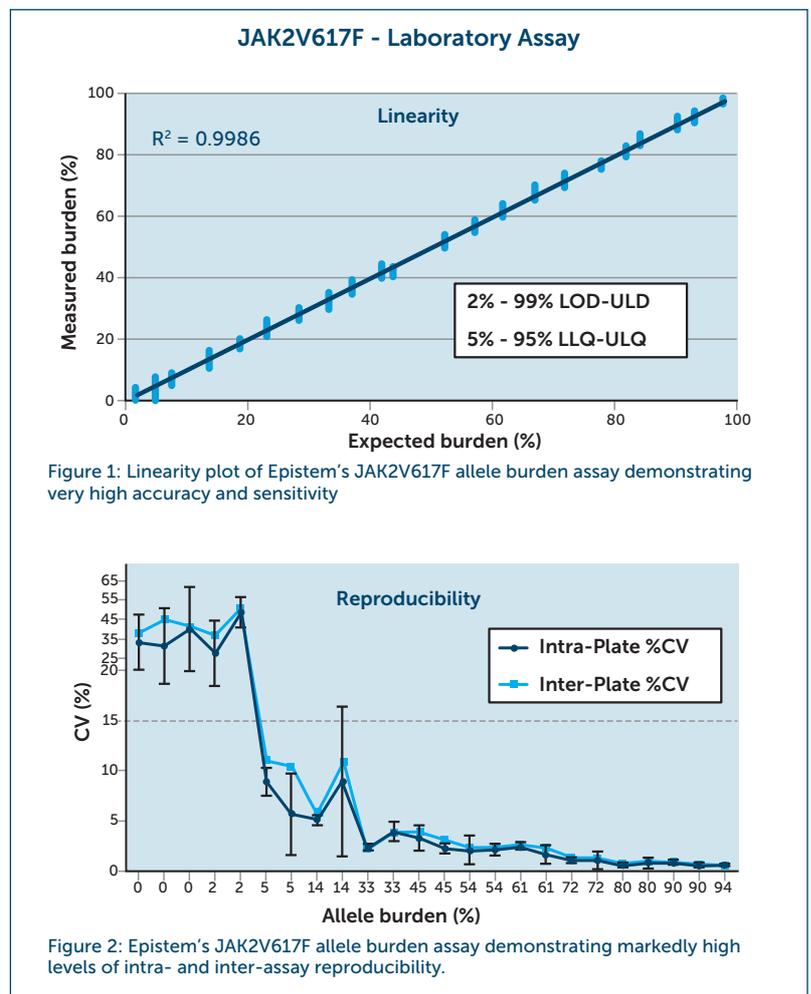
- Epistem offers DNA sequencing and genotyping analysis using a range of Illumina platforms

PCR Analysis:

- Epistem provides focussed quantitative or qualitative DNA genotyping analysis by PCR

We offer a bespoke service working closely with sponsors in the development and validation of assays prior to assessing clinical samples. Alternatively, sponsor-validated assays can be transferred to Epistem to perform analysis of samples from clinical studies.

An example of work we have conducted is shown in Figures 1 and 2 highlighting our accurate and reproducible proprietary JAK2V617F laboratory assay.

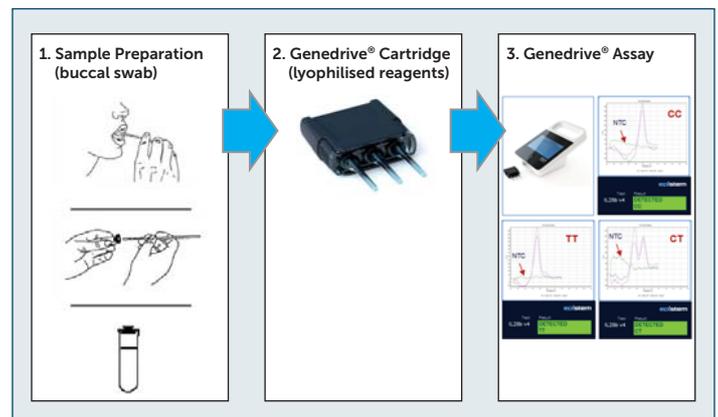


DNA Genotyping Analysis

Point of Care Genotyping

Genedrive®: Genedrive® provides near-patient genotype results within 60 minutes of sample collection. We are able to assess blood, plasma, buccal swabs, sputum and other biological tissue samples. We have developed companion diagnostic assays for human, bacterial and viral targets and can multiplex assays according to customer requirements.

Ease of Use: Low cost and minimal training with single button activation provides a simple unequivocal yes/no result. As well as a simple assay preparation, no DNA extraction step is required meaning samples are loaded direct to PCR.



Simple workflow from sample collection to genotype result



Multiple Applications: Genedrive® is ideal for point of care target detection and patient stratification applications in phase I - III clinical trials and market applications.

Genedrive® Accreditation: The Genedrive® platform is ISO13485 and CE-IVD approved. For more information, please visit www.genedrive.com

Why Choose Epistem?

Our Expertise: Epistem Pharmacogenomics provides high quality biomarker and personalised medicine information to pharmaceutical and biotechnology companies from very limited quantities of RNA. We specialise in advancing drug development programs for oncology, inflammatory and fibrotic disease indications through our innovative plucked hair analysis and laser capture microdissection techniques as well as offering GCLP accredited laboratory gene expression and DNA genotyping services. In addition to our expertise in assessing limited quantities of RNA, we also have extensive experience in developing patient stratification companion diagnostic assays using our point of care Genedrive® platform.

Outstanding Service: Epistem's high level of expertise and customer focus has led to an enviable track record and impressive repeat business ratio. Epistem has worked with over 200 pharmaceutical and biotechnology companies and has developed long term collaborative relationships with several market leaders.

Quality Management: Epistem's pharmacogenomics laboratories are GCLP accredited. Our ISO 13485 certification is for the design, development, manufacture and distribution of molecular diagnostic instruments and molecular IVD assays.