Automated Quantitative Faecal Immunochemical Testing (qFIT)

The HM-JACKarc analyser is a compact bench top system that uses Integrated Sphere Latex Turbidimetry to measure faecal haemoglobin concentration. It has advanced innovative software with touch screen technology, providing a very easy to use interface. There is minimal depth to the programme menus, ensuring quick access to operating screens. The system can be utilised by all grades of staff with minimal training. Different levels of user access authority provide security, so that only advanced users can amend settings etc. HM-JACKarc has been designed to provide rapid results with maximum convenience for the operator.

The ability to load up to 80 samples at any one time provides walk-away capability and enhanced productivity. Additional consumables and samples (up to a total maximum of 80) can be added at any time during the testing process.

HM-JACKarc has a time to first result of just 5.6 minutes with additional results every 18 seconds, generating up to 200 results per hour.

The technology and software ensures that the system can be used in either screening or symptomatic assessment applications, since cut-off concentrations can be selected depending upon requirements.

Key features:
- Sensitivity: 7 ng/ml
- Easy to use sample tube
- Fully automated
- Compact and light
- No prozone effect up to 200,000 ng/ml
- High speed performance: 200 samples/hour

Simple set up of reagents and samples
Press START
Results in just 5.6 minutes

The latex reagent is composed of consistently sized latex particles. The polyclonal antibodies bound to the surface of the latex in high concentrations ensure a very high antigen capture ratio.

This achieves two key benefits:
- A wide linear dynamic assay range 0-400 µg Hb/g faeces
- A very high hook capacity (200,000 Hb/g faeces) so that it still generates a result for samples higher than the top standard, ensuring no patient is given an artificially low result.

As with any method, the pre-analytical component is key to result accuracy.

Sample size and consistency have always been an issue with faecal testing, but with the new collection picker for the HM-JACKarc, this is made easier for those taking the sample, irrespective of whether this is done by a laboratory professional or by the patient.

- Screw in picking stick, 95kPa compliant vial
- Oval hole and rubber septum enables accurate collection of the faeces
- Seal and collection indicator window confirms usage
- Collection picker is loaded directly onto the HM-JACKarc analyser

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Faecal Testing