



## Biomarker Services

### Introduction

Cellular and soluble biomarker analyses are becoming increasingly important in clinical trials to understand the biological activity and safety profile of candidate therapies. Together with its partner laboratories, Synexa Life Sciences\* (Cape Town, South Africa) and Synexel\*\* (Poitiers, France), PAREXEL offers a global specialized services using PAREXEL's extensive network of transit laboratories to assist in sample preparation and logistics.

PAREXEL Clinical Pharmacology also provides significant expertise to help clients select relevant biomarkers, interpret results and understand the implications for the therapy in question.

### Key Features of Service Include:

- ISO 17025 and GLP accreditation
- Particular expertise in cellular assays, using Flow Cytometry and Cell Biology platforms
- Soluble biomarkers analyses, using ELISA, ECL and RIA
- Capacity to handle large trials with rapid turnaround times
- Expert staff with extensive experience, offering advice and interpretation of assay results
- Method development and validation services
- Watson LIMS, Labware LIMS (Synexa)
- Singleplexed and Multiplexed Immunoassay platforms to support early clinical, pre-clinical and clinical studies
- Global logistics capability

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that makes the Difference™*

## Range of Biomarkers

PAREXEL Clinical Pharmacology offer over 1,000 assays, including key biomarkers in the following major disease categories:

- Cardiovascular medicine
- Clinical immunology and haematology
- Infectious diseases
- Oncology
- Respiratory medicine
- Endocrinology
- Gastroenterology
- Neurology
- Urogenital medicine

## Biomarker Equipment

The Laboratories are equipped with the latest biomarker analysis technology:

- Flow Cytometry (Becton Dickinson)
- Cytometric Bead Array (Becton Dickinson)
- ELISA
- ECL
- RIA
- Waters LC-MS/MS
- Cell Biology platform

## Pharmacogenetics

Recently established pharmacogenetic laboratories offer analysis of genetic factors causing variation in drug response. Synexa's pharmacogenetics services are used in patient selection, dose-finding and identifying relevant genetic sub-populations in clinical trials. An experienced team of geneticists can develop and validate new methods as required.

## Pharmacogenetics Equipment

- Automated DNA/RNA Isolation Systems
- PCR
- Molecular Imaging Systems

\*Synexa Life Sciences is a PAREXEL preferred-partner laboratory, based in Cape Town, South Africa.

\*\*Synexel is a PAREXEL preferred-partner laboratory, based in Poitiers, France.

## PAREXEL Clinical Pharmacology

### Strategic Locations

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