



CYTODIAGNOSTICS



CYTOGROUP

**ELISA**  
Product and  
Development  
Service

## Why Choose CytoGroup?



Comprehensive solutions from idea feasibility to antibody, recombinant, and antigen production — through prototype, manufacturing, and post-service care

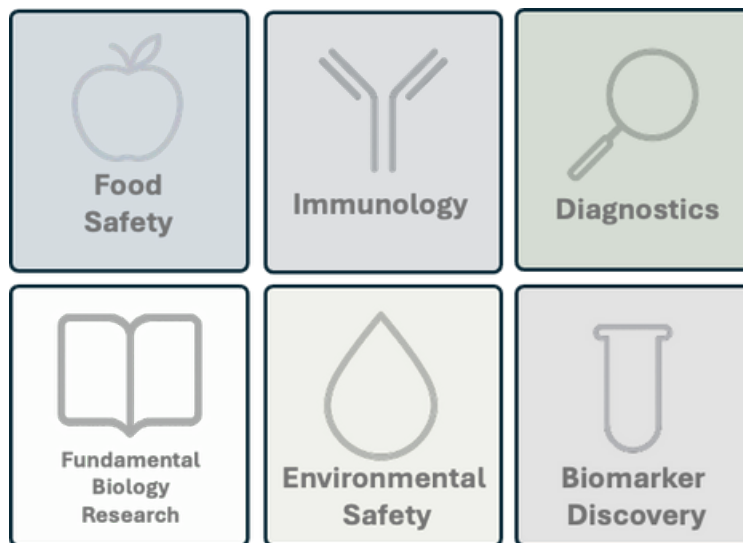
### Custom Services

CytoGroup provides high-performance assays built on precision, reliability, and scientific expertise. Our custom ELISA development and testing services are designed to simplify workflows and deliver dependable results that move your research forward.

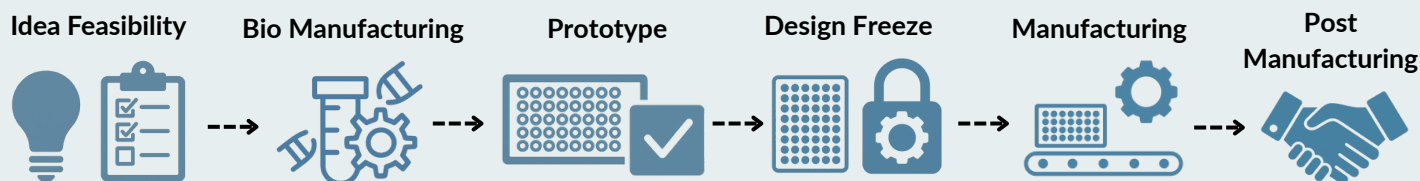
### Quality and Service

Operating under ISO 9001-certified quality systems, with ISO 13485 compliance in progress, we ensure rigorous QC testing for sensitivity and consistency in every product. Our customizable ELISA development and validation services can integrate seamlessly into your project at any stage of development.

### Applications

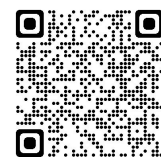


### Development Process



**Stratech**

[stratech.co.uk/cytodiagnosics](http://stratech.co.uk/cytodiagnosics)  
[info@stratech.co.uk](mailto:info@stratech.co.uk)





CYTODIAGNOSTICS



CYTOGROUP

**ELISA**  
Product and  
Development  
Service

## Collaborative Assay Design From Idea to Implementation

At CytoGroup, we develop high-performance ELISA assays that combine scientific precision with innovative design. Backed by advanced instrumentation and rigorous quality control, our customizable services ensure each assay meets your research goals — delivering validated, reproducible results from concept to completion.

### Tasks

### Development Process

#### Idea Feasibility



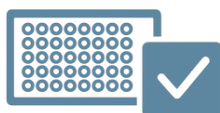
Evaluate target suitability, select optimal assay format, and define sensitivity and specificity requirements for robust ELISA performance.

#### Bio Manufacturing



Comprehensive biomolecular manufacturing services, including antibody production, sequencing, recombinant protein expression, and antigen synthesis. **Available in Lateral Flow Assay (Oligomers and Aptamers)**

#### Prototype



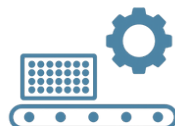
Assemble and evaluate preliminary ELISA kits to confirm functionality, reproducibility, and performance under real assay conditions.

#### Design Freeze



Finalize all assay components, parameters, and documentation to lock the ELISA design before validation and manufacturing scale-up.

#### Manufacturing



Scale ELISA production under ISO 9001 quality management and aligning towards ISO 13485 and 17025.

#### Post-Manufacturing

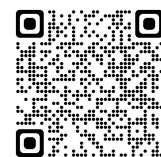


Conduct final quality control, stability, and performance testing to verify lot consistency, then package and release validated ELISA kits for distribution.



**Stratech**

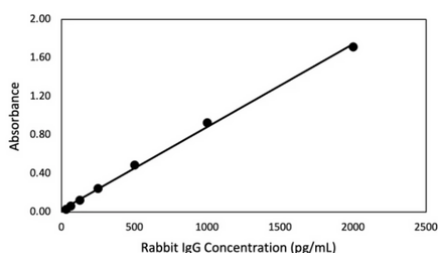
[stratech.co.uk/cytodiagnosics](https://stratech.co.uk/cytodiagnosics)  
[info@stratech.co.uk](mailto:info@stratech.co.uk)



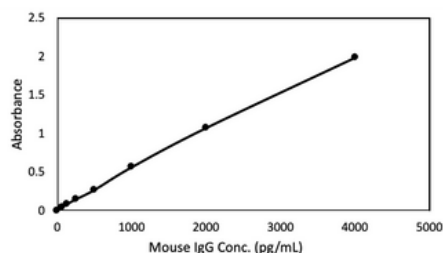
## ELISA/ELASA Immunoglobulin Kits

Reliable, ready-to-use assays for quantifying mouse, rabbit, and human IgG.

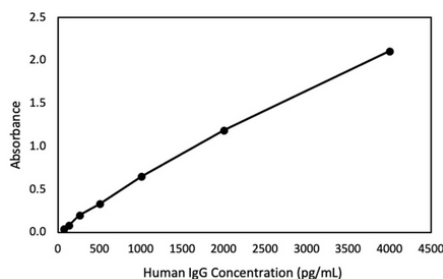
### Our ELISA/ELASA Products



**Rabbit IgG ELISA Kit**  
**Cat. No. EL-001**



**Mouse IgG ELISA Kit**  
**Cat. No. EL-002**



**Human IgG ELISA Kit**  
**Cat. No. EL-003**

#### Specifications

**Target:** Rabbit IgG, **Analytical Sensitivity:** <20 pg/mL, **Assay Range:** 31.25-2000 pg/mL, **Assay Time:** 3.5 h., **Sample Type:** Serum, Plasma, Cell Culture Supernatant, **Assay Format:** Solid-phase Sandwich (quantitative), **Sample Volume:** 100 µL

#### Applications

- Assessment of antibody response in immunization or vaccine development.
- Characterization of polyclonal antibody production in research and QC testing.
- Evaluation of assay cross-reactivity or antibody purification efficiency.

#### Specifications

**Target:** Mouse IgG, **Analytical Sensitivity:** <20 pg/mL, **Assay Range:** 62.5-4000 pg/mL, **Assay Time:** 3.5 h., **Sample Type:** Serum, Plasma, Cell Culture Supernatant, **Assay Format:** Solid-phase Sandwich (quantitative), **Sample Volume:** 100 µL

#### Applications

- Monitoring antibody production in hybridoma and immunization studies.
- Evaluation of humoral immune responses in *in vivo* and *in vitro* models.
- Quality control for recombinant or purified mouse antibodies.

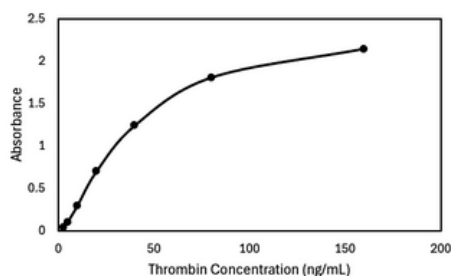
#### Specifications

**Target:** Human IgG, **Analytical Sensitivity:** <50 pg/mL, **Assay Range:** 62.5-4000 pg/mL, **Assay Time:** 3.5 h., **Sample Type:** Serum, Plasma, Cell Culture Supernatant, **Assay Format:** Solid-phase Sandwich (quantitative), **Sample Volume:** 100 µL

#### Applications

- Evaluation of humoral immune responses and antibody production.
- Monitoring therapeutic antibody levels and immune status in research samples.
- Quality control of recombinant or purified human antibodies.

## ELISA Biomarker Kits



**Human Thrombin ELASA Kit**  
**Cat. No. ELA-001**

#### Specifications

**Target:** Human Thrombin, **Analytical Sensitivity:** <1.4 ng/mL, **Assay Range:** 2.5-160 ng/mL, **Assay Time:** 2 h., **Sample Type:** Serum, Plasma, Cell Culture Supernatant, **Assay Format:** Solid-phase Sandwich (quantitative), **Sample Volume:** 100 µL.

#### Applications

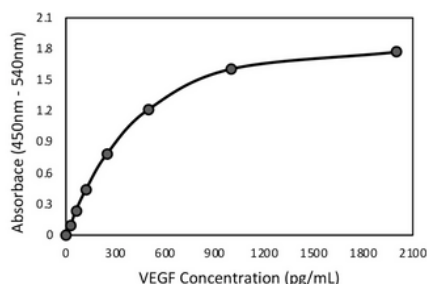
- Research on coagulation, thrombosis, and hemostasis pathways.
- Evaluation of thrombin inhibitors and anticoagulant therapies.
- Studies on inflammation, wound healing, and tumor progression.



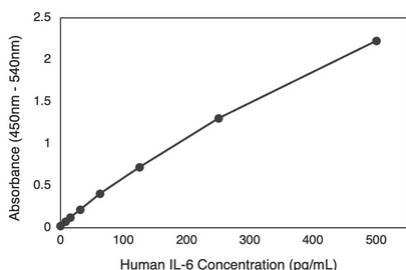
## ELISA Biomarker Kits

Reliable, ready-to-use assays for quantifying key human and mouse biomarkers.

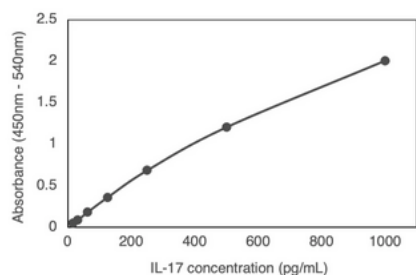
### Our ELISA Products



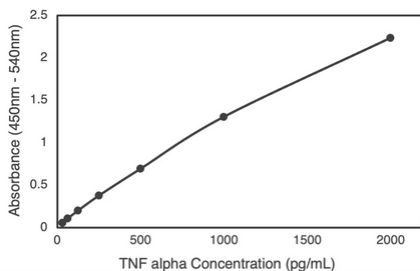
**Human VEGF  
ELISA Kit**  
Cat. No. EL-004



**Human IL-6  
ELISA Kit**  
Cat. No. EL-005



**Human IL-17  
ELISA Kit**  
Cat. No. EL-006



**Human TNF-alpha  
ELISA Kit**  
Cat. No. ELA-007

#### Specifications

**Target:** Human VEGF, **Analytical Sensitivity:** <30 pg/mL, **Assay Range:** 31.25-2000 pg/mL, **Assay Time:** 4.5 h., **Sample Type:** Serum, Cell Culture Supernatant, **Assay Format:** Solid-phase Sandwich (quantitative), **Sample Volume:** 100 µL

#### Applications

- Investigation of angiogenesis, vascular permeability, and endothelial cell signaling.
- Research on cancer, wound healing, and ischemic or cardiovascular diseases.
- Evaluation of VEGF-targeted therapies and anti-angiogenic drug efficacy.

#### Specifications

**Target:** Human IL-6, **Analytical Sensitivity:** <1 pg/mL, **Assay Range:** 7.8-500 pg/mL, **Assay Time:** 4.5 h., **Sample Type:** Serum, Plasma, Cell Culture Supernatant, **Assay Format:** Solid-phase Sandwich (quantitative), **Sample Volume:** 100 µL

#### Applications

- Investigation of inflammation, immune regulation, and cytokine signalling pathways.
- Research on autoimmune, infectious, and related inflammatory diseases.
- Evaluation of IL-6-targeted therapies and anti-inflammatory drug efficacy.

#### Specifications

**Target:** Human IL-17, **Analytical Sensitivity:** <9 pg/mL, **Assay Range:** 15.6-1000 pg/mL, **Assay Time:** 4.5 h., **Sample Type:** Serum, Plasma, Cell Culture Supernatant, **Assay Format:** Solid-phase Sandwich (quantitative), **Sample Volume:** 100 µL

#### Applications

- Investigation of T-cell development, differentiation, and immune regulation.
- Research on cytokine signalling and lymphocyte homeostasis.
- Evaluation of IL-7-targeted therapies and immune-modulating treatments.

#### Specifications

**Target:** Human TNF alpha, **Analytical Sensitivity:** <11 ng/mL, **Assay Range:** 31.2-2000 ng/mL, **Assay Time:** 4.5 h., **Sample Type:** Serum, Plasma, Cell Culture Supernatant, **Assay Format:** Solid-phase Sandwich (quantitative), **Sample Volume:** 100 µL.

#### Applications

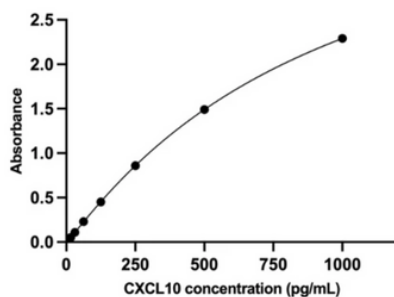
- Investigation of inflammatory and immune response pathways in disease and research models.
- Monitoring the effects of TNF-α inhibitors and anti-inflammatory therapies.
- Biomarker studies in autoimmune, inflammatory, and infectious diseases.



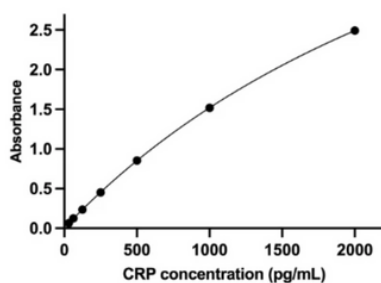
## ELISA Biomarker Kits

Reliable, ready-to-use assays for quantifying key human and mouse biomarkers.

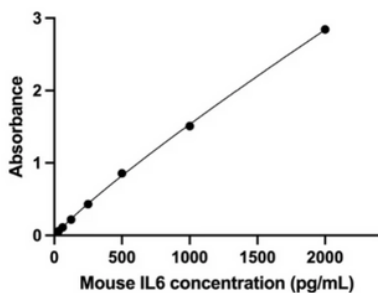
### Our ELISA Products



**Human CXCL10  
ELISA Kit**  
Cat. No. EL-008



**Human CRP  
ELISA Kit**  
Cat. No. EL-009



**Mouse IL-6  
ELISA Kit**  
Cat. No. EL-010

#### Specifications

**Target:** Human CXCL10, **Analytical Sensitivity:** <8 pg/mL, **Assay Range:** 15.6-1000 pg/mL, **Assay Time:** 4.5 h., **Sample Type:** Serum, Cell Culture Supernatant, **Assay Format:** Solid-phase Sandwich (quantitative), **Sample Volume:** 100 µL

#### Applications

- Studies of chemokine/immune signalling, in inflammation, infection or immune activation.
- Biomarker analysis in diseases (e.g. viral infection, autoimmune, cancer).
- Monitoring changes in CXCL10 levels in response to treatments or experimental perturbations.

#### Specifications

**Target:** Human CRP, **Analytical Sensitivity:** <10 pg/mL, **Assay Range:** 31.2-2000 pg/mL, **Assay Time:** 4.5 h., **Sample Type:** Serum, Plasma, Cell Culture Supernatant, **Assay Format:** Solid-phase Sandwich (quantitative), **Sample Volume:** 100 µL

#### Applications

- Monitoring systemic inflammation, acute phase response, or disease progression.
- Biomarker studies in cardiovascular, metabolic, autoimmune, and infectious disease research.
- Evaluation of anti-inflammatory therapies or experimental interventions.

#### Specifications

**Target:** Mouse IL-6, **Analytical Sensitivity:** <9 pg/mL, **Assay Range:** 31.25-2000 pg/mL, **Assay Time:** 4.5 h., **Sample Type:** Serum, Plasma, Cell Culture Supernatant, **Assay Format:** Solid-phase Sandwich (quantitative), **Sample Volume:** 100 µL

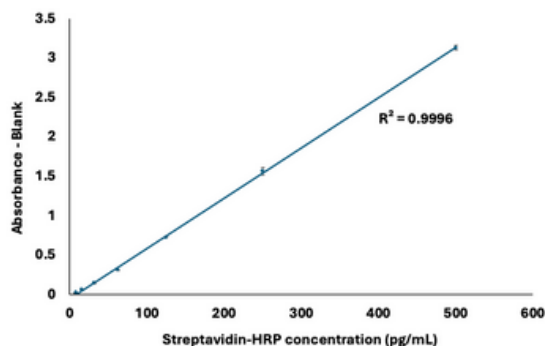
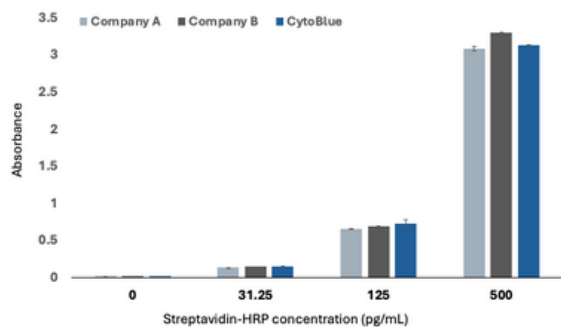
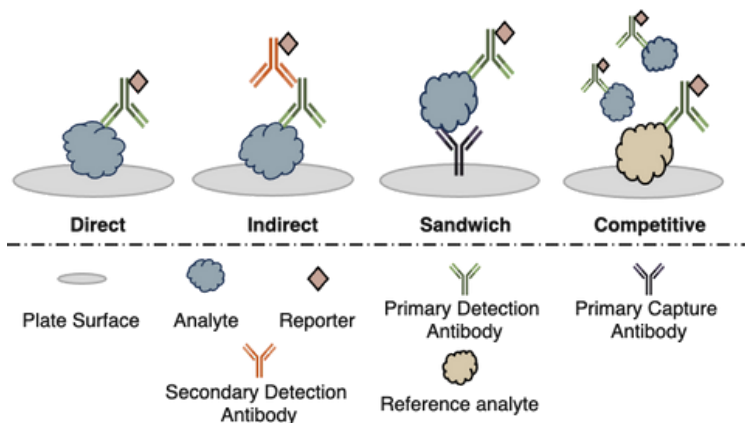
#### Applications

- Investigation of inflammatory and immune response pathways in mouse models.
- Evaluation of IL-6 as a biomarker in autoimmune, inflammatory, and infectious disease studies.
- Monitoring cytokine modulation in pre-clinical drug efficacy and toxicity studies.



## ELISA “DIY” Kit

Build, optimize, and validate your own ELISA — all from one comprehensive kit.



**Description:** Cyto’s ELISA “Do-it-yourself” kit contains a comprehensive collection of supplemental reagents and plates, providing an economical way to develop and perform different formats of colorimetric ELISA with reduced preparation time. The kit contains the necessary reagents and materials for developing all formats of ELISA using an HRP-TMB based signal amplification system. The reagents have been extensively validated for various analytes and ELISA formats. The diluents and buffers are carefully formulated and aseptically filtered through a 0.2-micron filter into clean, pre-sterilized containers to ensure consistent performance and prolonged shelf life. The provided 96-well strip microplates with 12 breakable strips of 8 wells have a high binding surface, suitable for the passive adsorption of antibodies and antigens with a molecular weight greater than 30 kDa.

### CytoBlue TMB Substrate

3,3',5,5'-Tetramethylbenzidine (TMB) is a chromogenic substrate that can be used for assay procedures, such as colorimetric ELISA. Upon reaction with horseradish peroxidase (HRP) in the presence of hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>), the colourless liquid turns blue. When the endpoint is reached, the HRP-TMB reaction is stopped with the addition of an acid, which turns it into a yellow-coloured product. The colour intensity of the reaction product is measured at 450 nm.

### Products and Catalogue No.

CytoBlue 50 mL Solution	EL-C10-50ML
CytoBlue 200 mL Solution	EL-C10-200ML
CytoBlue 500 mL Solution	EL-C10-500ML
CytoBlue 1L Solution	EL-C10-1L



## ELISA Reagents and Consumables

Optimized Reagents for Reliable, Reproducible Results.

Our ELISA buffers and consumables are precision-formulated to maintain antigen and antibody integrity, support optimal binding conditions, and deliver consistent, reproducible results across every experiment.

**Black:** Designed for fluorescence assays, minimizing background and cross-talk. The black surface reduces light scattering, improving overall signal-to-noise performance.

**White:** Optimized for luminescence detection by reflecting emitted light toward the detector, enhancing signal-to-noise ratios.

**Clear:** Ideal for absorbance-based detection methods.



### ELISA High Bind Plates (5 plates/ pkg)

**Fluorescent (Black Plates):** Part No. EC-001-05

**Chemiluminescent (White Plates):** Part No. EC-002-05

**Chromogenic (Clear Plates):** Part No. EC-003-05

**Standard Clear ELISA Plates:** Part No. EC-005-05

### ELISA Wash Buffer (10x)

**Part No. EL-C2-50mL, Part No. EL-C2-100mL, Part No. EL-C2-250mL**

**Application:** Removes unbound materials between assay steps without disrupting antigen-antibody complexes, ensuring low background and high signal-to-noise ratios.

### ELISA Detection Diluent

**Part No. EL-C4-50mL, Part No. EL-C4-100mL, Part No. EL-C4-250mL**

**Application:** Formulated to maintain antibody reactivity and reduce background during detection steps, enhancing signal clarity and reproducibility.

### ELISA Coating Buffer

**Part No. EL-C9-50mL, Part No. EL-C9-100mL, Part No. EL-C9-250mL**

**Application:** Optimized to promote uniform adsorption of capture antibodies or antigens to the plate surface, ensuring strong, stable binding and consistent assay sensitivity.

### ELISA Assay Diluent

**Part No. EL-C3-50mL, Part No. EL-C3-100mL, Part No. EL-C3-250mL**

**Application:** Provides a balanced environment for sample and reagent addition, maintaining protein integrity and minimizing matrix interference for accurate quantification.

### ELISA Stabilizer and Blocking Solution

**Part No. EL-C1-50mL, Part No. EL-C1-100mL, Part No. EL-C1-250mL**

**Application:** Minimize non-specific binding and preserve the coated plate's performance during storage, improving background reduction and long-term stability.

### ELISA Stop Solution

**Part No. EL-C8-50mL, Part No. EL-C8-100mL, Part No. EL-C8-250mL**

**Application:** Terminates enzymatic colour development at a fixed endpoint, stabilizing the signal for consistent optical density measurement.

