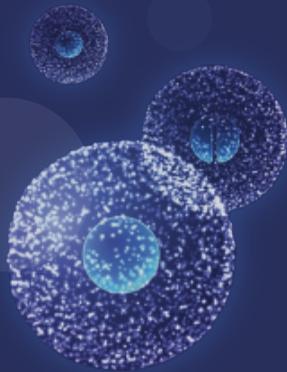




Biospecimens

One of the most
comprehensive ranges
of biological specimens
in Europe



Life Science Group Ltd (LSG) offers one of the most comprehensive listings of biological products in Europe. Privately owned, LSG is a UK company retaining the traditional values of quality product and absolute customer care, providing a fast, friendly and efficient service with a focus on traceability.

Material

Through a global network, LSG can supply a large range of human and animal biospecimens. We specialise in the supply of serum, plasma, whole blood, tissues and other biospecimens for clinical trials and diagnostic development. Our network for human derived material includes collection centres in the UK, Europe, USA and India. The majority of the animal derived biospecimens are collected in the UK from registered facilities.

Animal Specimens

LSG animal-derived products are sourced from laboratory animals bred under controlled conditions. Collections are made from animals that have been fasted and which are drug naïve. This results in a high quality product with minimal batch variation and allows for complete traceability.

Animal material is harvested from animals in facilities under veterinary supervision from an extensive range of animal species and strains. Material is also available from a large range of agricultural species.

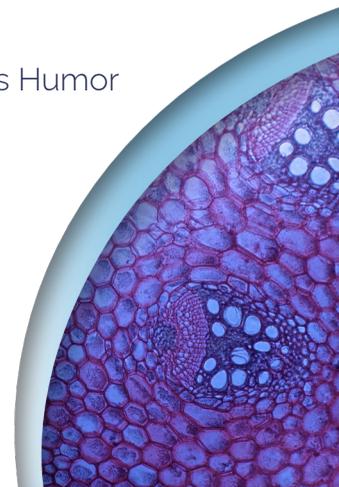


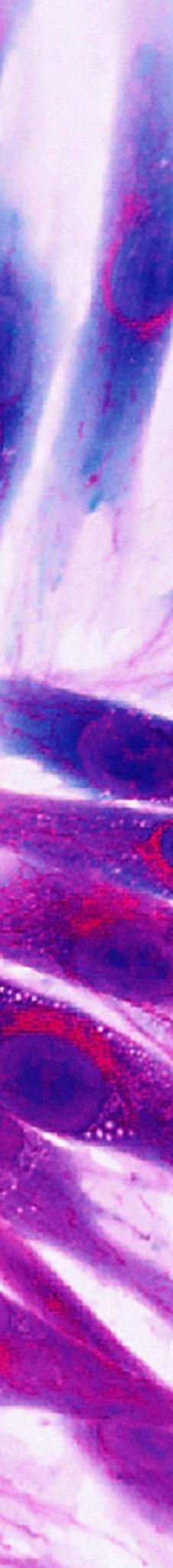
The species available are:

- Baboon
- Beagle
- Bovine
- Cat
- Chicken
- Cynomolgus Monkey
- Dog (mongrel)
- Donkey
- Ferret
- Gerbil
- Goat
- Guinea Pig
- Hamster
- Horse
- Marmoset
- Mini-Pig
- Mouse
- Pig
- Rabbit
- Rat
- Rhesus Monkey
- Sheep

The tissues available are:

- Adrenal
- Aorta
- Amniotic Fluid
- Aqueous Humor
- Bile
- Bladder
- Brain
- Bronchial Lavage
- Cerebral Spinal Fluid
- Colon
- Duodenum
- Eye
- Fat
- Faeces
- Femur
- Foetus
- Gall Bladder
- Heart
- Hypothalamus
- Ileum
- Inguinal Nodes
- Intestinal Fluid
- Kidney
- Large Intestine
- Liver
- Lung
- Milk
- Nasal Tissue
- Oesophagus
- Ovary
- Pancreas
- Peritoneal Fluid
- Prostate
- Pituitary
- Saliva
- Sciatic Nerve
- Semen
- Skeletal Muscle
- Skin
- Small Intestine
- Spinal Cord
- Spleen
- Stomach
- Synovial Fluid
- Tail
- Testicle
- Thyroid
- Tonsil
- Thymus
- Urine
- Uterus
- Vitreous Humor





Material Specification Options:

- Individual donor
- Non filtered material
- Pooled donors
- Fibrinogen free
- Specific strains
- Ultra centrifugation
- Sterile filtered to 0.2 micron
- Single or pooled gender

Serum: All serum, unless requested otherwise, is collected 'off clot' without additives or preservatives.

Complement Preserved serum: Complement preserved serum and lyophilised complement products are also available.

Plasma and Whole Blood: This material is prepared with the anticoagulant of choice. Standard anticoagulants are:

- ACD
- Sodium Citrate
- Sodium EDTA
- Potassium EDTA (K2 or K3)
- Potassium Oxalate/Sodium Fluoride
- CTAD
- Sodium Heparin
- Lithium Heparin
- RBC's

PBMCs:

PBMC extractions are available from a wide variety of animal species, prepared to individual protocols. These can be supplied fresh, as Buffy Coats or as frozen cell separations.

Microsomes and S9 Fractions:

LSG offers a large range of pooled microsomes and S9 fractions from liver and other tissues. Animal liver cytosol is also available. Please contact us for further information.

Human

Normal human material is collected from stringently screened donors at registered donor centres. The donors must test negative for RPR, HIV 1, HIV 2, Hepatitis B Surface Antigen, HCV and HIV 1-Ag using approved methodology. The donors must have normal ALT levels. Qualifying donors are also subject to a physical examination and verbal screening.

LSG has access to a comprehensive inventory of disease state human donor material and this may be supplied on request. All samples are collected under IRB approval with appropriate donor consents in place. Prospective collections are also available.

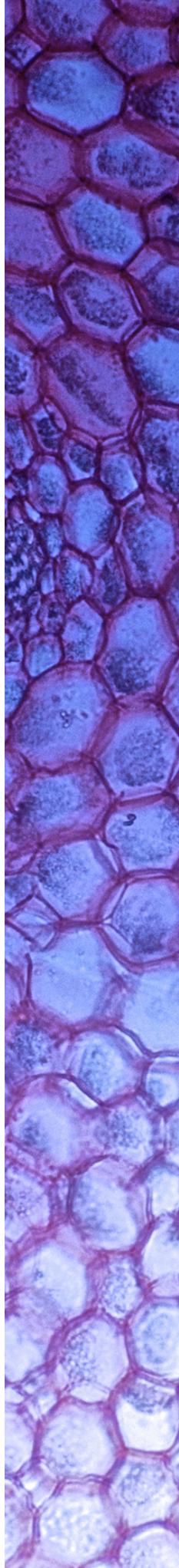
Clinical specimens include serum, plasma and urine from a wide range of diseases including diabetes, cancer, gastrointestinal sepsis, liver disease, cardiac disorders and infectious disease.

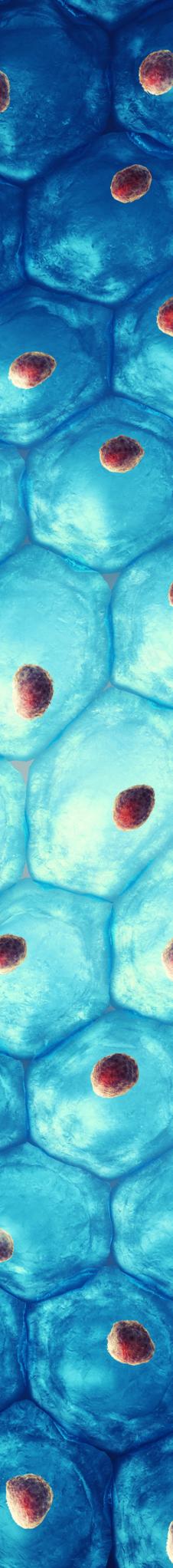
Material Specification Options:

- Individual donors
- Pooled donors
- Matched sets
- Pooled gender
- Bulk material
- Age, race and gender specifications
- Specific demographic groups
- Single gender
- PBMCs
- Prospective collections
- Specific dietary requirements

Processes and Presentations:

- Medium and Heavy Charcoal stripping
- Ultra filtration to specified molecular weight cut offs
- Custom aliquoting
- Fibrinogen free
- Ultra centrifugation
- Non filtered material and Sterile filtered to 0.2 micron or 0.45 micron





Through our relationships with biobanks we can routinely offer:

- Fresh Frozen Tissues
- PPFE Blocks
- Tissue Microarrays
- Unstained sections
- Scrolls
- Whole blood
- Serum
- Plasma
- Buffy Coats

Examples of tissues we can offer include:

- Lung
- Pancreas
- Hearty (without valves)
- Kidney

All samples will be supplied in a link anonymised way with, where possible, an agreed data set against each sample. Data will be aggregated as required from electronic patient records, patient notes and pathology reports. For projects requiring tissues once diagnosis has been established (tissues surplus to diagnosis) we can offer tissues that the clinical teams deem not for diagnosis or that which is surplus to diagnostic needs.

Examples include:

- Non-diagnostic/surplus tissue from surgery, drainage, wound dressings
- Formalin-fixed paraffin-embedded tissues from pathological archives
- Blood fractions surplus to diagnosis (serum, plasma)
- Microbiology swabs
- Non-transplantable tissues

Routine services include:

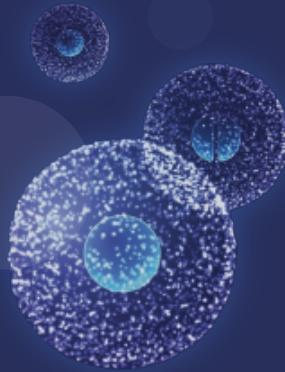
- Tissue processing
- Section cutting
- Tissue micro arraying
- Immunocytochemistry
- High resolution digital imaging of tissue sections – brightfield and fluorescent (Scanner software can be provided for viewing)

This brochure outlines the most common types of human and animal material that we are able to offer. Please contact us should your requirement not be listed.

Associated reagents:

LSG manufactures T-Store, a synthetic buffer designed specifically for the transport of all types of tissues at ambient temperature. For more information please visit our website link www.lifescienceproduction.co.uk/products/t-store/ or email sales@lifesciencegroup.co.uk for further details.





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