

Lymphocyte sensitivity test principle

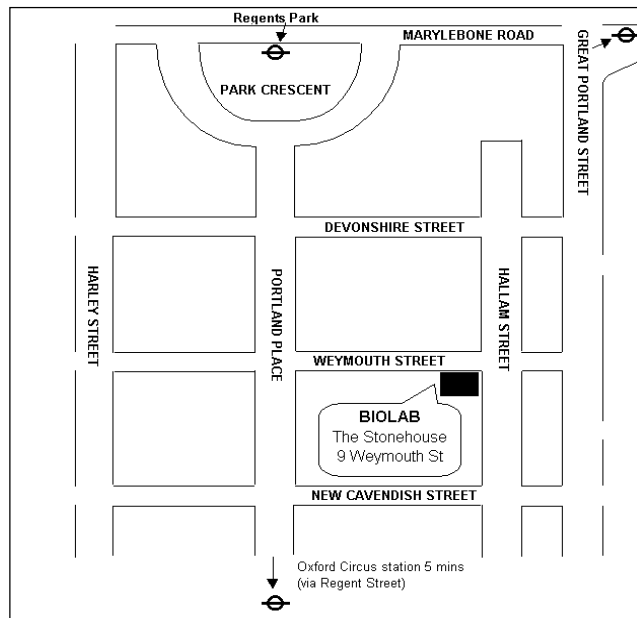
Health problems resulting from chemical exposure in the workplace, at home or in the general environment cannot always be explained as direct toxicity. It is often necessary to consider chemical sensitivity. In a mercury-sensitised patient, for example, very low level exposure can lead to symptoms that are more typical of mercury toxicity.

Following exposure, it is often possible to measure the chemical in blood, urine or fat cells. When the levels are too low to suggest true toxicity it is difficult to make a diagnostic link between the symptoms and the exposure. The possibility of sensitivity has to be considered.

Using phase-contrast microscopy, micro-capillary electrodes are employed to detect the effects of a minute quantity of the suspect chemical on the resting potential (RP) of individual lymphocytes from a blood sample. The procedure is repeated until enough cells have been examined to give a reliable 'average' sensitivity.

The milli-volt change in RP is converted to a linear scale where up to 100 is normal, 100 – 200 reflects mild sensitivity and results above 200 indicate definite sensitivity.

Over the page, a number of profiles are listed but if these do not fit your needs then please tick the individual boxes for the substances of interest.



Please telephone for an appointment

Nurses available Monday - Thursday 9:30am - 5pm and Friday 9:30am - 2:00pm

Patients are requested to settle their accounts at the time of appointment

Biolab Medical Unit

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Lymphocyte sensitivity request form

Patient Details:		Referring doctor:	
Title Mr / Mrs / Master / Miss / Other _____		Name:	
Forenames:		Address:	
Surname:			
Date of birth ____/____/____			
Sex: M / F Pregnant? No / Yes Weeks ____			
Address:		Telephone:	
		Fax:	
		E-mail:	
Telephone:		Doctor's reference:	
E-mail:		Last Biolab reference: ____/____/____	
ACCOUNT TO: <input type="checkbox"/> DOCTOR <input type="checkbox"/> PATIENT (see below)			
Patients are requested to settle their account at the time of testing. For postal samples please include a cheque or your credit card details (card number, expiry date, 3 digit security code. For Switch cards the issue number and start date are also required):			
Alcohol: Yes / No		Smoking: Yes / No	
Nutritional supplements: Yes / No		Medications: Yes / No	
Clinical details:			
Medications:			
Appointment date and time:			

MEDICAL DIRECTOR:

Dr Stephen Davies MA BM BCh FACN

LABORATORY DIRECTOR:

Dr Nicholas Miller PhD FRCPath

Sample date:	Name:	
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PROFILES		
<input type="checkbox"/> Detergents	<input type="checkbox"/> Metals profile (Hg,Ni,Ag,Au,Pb,Cu)	
<input type="checkbox"/> Exhaust gas profile (see * below)	<input type="checkbox"/> Pesticides & organophosphates profile	
<input type="checkbox"/> Food additives profile (all listed additives below)	(all pesticides and organophosphates listed below)	
<input type="checkbox"/> Furniture /soft furnishings profile (see> below)	<input type="checkbox"/> Silicones (mix)	
<input type="checkbox"/> Hair dressings (includes detergents)		

METALS		
<input type="checkbox"/> Mercury (inorganic & organic)	<input type="checkbox"/> Copper (Cu)	<input type="checkbox"/> Vanadium (V)
<input type="checkbox"/> Amalgam (Hg, Ag, Sn)	<input type="checkbox"/> Chromium (Cr)	<input type="checkbox"/> Antimony (Sb)
<input type="checkbox"/> Nickel (Ni)	<input type="checkbox"/> Cobalt (Co)	<input type="checkbox"/> Arsenic (As)
<input type="checkbox"/> Silver (Ag)	<input type="checkbox"/> Palladium (Pd)	<input type="checkbox"/> Vitallium (Cr/Co alloy)
<input type="checkbox"/> Gold (Au)	<input type="checkbox"/> Platinum (Pt)	<input type="checkbox"/> Beryllium
<input type="checkbox"/> Lead (Pb)	<input type="checkbox"/> Tin (Sn)	
<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Titanium (Ti)	

PESTICIDES	ORGANOPHOSPHATES	
<input type="checkbox"/> Pentachlorophenol (PCP)	<input type="checkbox"/> Alpha-Naphthol	<input type="checkbox"/> Cypermethrin
> <input type="checkbox"/> p-dichlorobenzene	<input type="checkbox"/> Lindane (BHC - mix)	<input type="checkbox"/> Diazinon
<input type="checkbox"/> Carbaryl (+ alpha-Naphthol)	<input type="checkbox"/> Permethrin	<input type="checkbox"/> Dichlorvos (includes Naled)
<input type="checkbox"/> Bendiocarb	<input type="checkbox"/> DDT/DDE/DDD	<input type="checkbox"/> Mevinphos
<input type="checkbox"/> Bromadiolone (Deadline)	<input type="checkbox"/> HCB (hexachlorobenzene)	<input type="checkbox"/> Tetrachlorvinphos
<input type="checkbox"/> DNOC (dinitro-o-cresol)		

ENVIRONMENTAL		
* <input type="checkbox"/> Aviation kerosene (burnt)	<input type="checkbox"/> 2,6-dichlorophenol	<input type="checkbox"/> Terpinol
* <input type="checkbox"/> Butane gas (burnt)	<input type="checkbox"/> Bergamot (Italian)	<input type="checkbox"/> Wood resins (general)
* <input type="checkbox"/> Natural gas (burnt)	<input type="checkbox"/> Lanolin	<input type="checkbox"/> Fluorosilicates
<input type="checkbox"/> Cigarette smoke	<input type="checkbox"/> PCBs (1221 - 1260)	> <input type="checkbox"/> PBBs (BDE) flame retardants
<input type="checkbox"/> Colophony	<input type="checkbox"/> PCBs (5432 - 5460)	<input type="checkbox"/> Hydroquinone
* <input type="checkbox"/> Diesel exhaust (burnt)	<input type="checkbox"/> Peru Balsam	<input type="checkbox"/> Resorcinol
* <input type="checkbox"/> Petrol exhaust (burnt)	<input type="checkbox"/> Phenol	
> <input type="checkbox"/> Formaldehyde	<input type="checkbox"/> Salicylates	
<input type="checkbox"/> Latex (natural rubber)	<input type="checkbox"/> Tannic acid	

FOOD ADDITIVES		
<input type="checkbox"/> Amaranth (E123)	<input type="checkbox"/> Sunset yellow (E110)	<input type="checkbox"/> Gelatine (Porcine)
<input type="checkbox"/> Annatto (E160B)	<input type="checkbox"/> Tartrazine (E102)	<input type="checkbox"/> Gelatine (mix)
<input type="checkbox"/> Chocolate brown (E155)	<input type="checkbox"/> MSG (E623)	
<input type="checkbox"/> Erythrosine (E127)	<input type="checkbox"/> Na benzoate (E211)	
<input type="checkbox"/> Green S (E142)	<input type="checkbox"/> Na metabisulphite (E323)	
<input type="checkbox"/> Ponceau 4R (E124)	<input type="checkbox"/> Soya (oxidised)	

SOLVENTS etc		
<input type="checkbox"/> Benzene	<input type="checkbox"/> Trichloroethylene	<input type="checkbox"/> Cresols (mix)
<input type="checkbox"/> Butyl acetate	<input type="checkbox"/> Xylene	<input type="checkbox"/> Hydroxycitronellol
<input type="checkbox"/> Chloroform	<input type="checkbox"/> Acetone	<input type="checkbox"/> Linalol
<input type="checkbox"/> Cinnamic alcohol	<input type="checkbox"/> Allyl Heptanoate	<input type="checkbox"/> Methylene chloride
<input type="checkbox"/> Diethyl ether	<input type="checkbox"/> Amyl cinnamic aldehyde	<input type="checkbox"/> Nitrobenzene(s)
<input type="checkbox"/> Ethyl acetate	<input type="checkbox"/> Aniline	<input type="checkbox"/> Pinene (alpha)
<input type="checkbox"/> Ethyl amyl ketone	<input type="checkbox"/> Benzaldehyde	<input type="checkbox"/> White spirit (com. mix)
<input type="checkbox"/> N-Hexane	<input type="checkbox"/> Benzyl alcohol	
<input type="checkbox"/> Toluene	<input type="checkbox"/> Citronellol	

OTHERS		
PLASTICS	<input type="checkbox"/> Methacrylates	DRUGS
<input type="checkbox"/> Polyethylene	<input type="checkbox"/> Acrylamide	<input type="checkbox"/> Halothane
<input type="checkbox"/> Polypropylene		<input type="checkbox"/> Na barbitone
<input type="checkbox"/> Polyamide (Nylon)	FLUORIDE etc	<input type="checkbox"/> Thiopentone Na
<input type="checkbox"/> Polyester (mix)	<input type="checkbox"/> Fluoride	<input type="checkbox"/> ADCON-L
> <input type="checkbox"/> Dimethyl phthalate	<input type="checkbox"/> Chlorine	<input type="checkbox"/> Paracetamol
<input type="checkbox"/> Phthalates (general)	<input type="checkbox"/> Bromine	

DENTAL MATERIALS		
<input type="checkbox"/> 3M Z100 restorative	<input type="checkbox"/> Durafill composite	<input type="checkbox"/> Ketac cement
<input type="checkbox"/> Acrylic splint	<input type="checkbox"/> Fuji IX glass ionomer	<input type="checkbox"/> PQI bond
<input type="checkbox"/> Apexit	<input type="checkbox"/> Fuji II LC liquid	<input type="checkbox"/> Prisma composite
<input type="checkbox"/> Carboxylate cement	<input type="checkbox"/> Fuji II LC powder	<input type="checkbox"/> Superfil
<input type="checkbox"/> Coltosol temp DSG	<input type="checkbox"/> Glass ionomers (mix)	<input type="checkbox"/> Ultracal
<input type="checkbox"/> Dentalon temp crown	<input type="checkbox"/> Gutta percha	<input type="checkbox"/> Vitabond
<input type="checkbox"/> Diamond DRM	<input type="checkbox"/> Herculite A3	<input type="checkbox"/> Zinc phosphate

Please send me: More of these forms Green pathology request forms Hair request forms