

Manufactured by:



## Warren Type 2 Diabetes DNA Panel 1

### Product Data Sheet

Product No: DUKW2 Panel 1 (2µg)

ECACC Catalogue No. 06090107

### Background

The Diabetes UK Type 2 Diabetes Warren Collection was established in 1996 and performed by six centres across the UK. The complete collection consists of over 850 sibling pairs, where at least one sibling has type 2 diabetes. For inclusion, individuals must be of European descent and Caucasian ethnicity.

### Description

Each panel consists of DNA from 96 unrelated individuals affected with Type 2 diabetes from the Warren 2 collection. DNA is extracted from lymphoblastoid cell lines derived by Epstein Barr Virus (EBV) transformation of peripheral blood lymphocytes from fresh, single donor blood samples. All donors have given written, informed consent for their blood to be used for research purposes.

The DNA is extracted and purified using standard techniques that yield high molecular weight material, as verified by agarose gel electrophoresis. The composition of each array is completely defined and standardised so that each product lot will be identical. The identity of each product lot is checked using STR DNA profiling ?

DNA from non-affected family members is available from ECACC on request, as is.

### Sample details

The table below provides the designation of each sample in the panel.

	1	2	3	4	5	6	7	8	9	10	11	12
A	WR1333	WR0229	WR1499	WR0003	WR1436	WR1933	WR1956	WR0852	WR1511	WR1945	WR0796	WR1908
B	WR0828	WR0196	WR0251	WR0958	WR1513	WR1948	WR1694	WR0448	WR1899	WR1501	WR0967	WR2528
C	WR1305	WR1804	WR0882	WR0857	WR1845	WR1624	WR1551	WR0884	WR1631	WR1920	WR0842	WR1764
D	WR0357	WR0786	WR0845	WR1422	WR1661	WR1602	WR1440	WR0876	WR1927	WR1954	WR0843	WR1642
E	WR1284	WR0228	WR0942	WR2412	WR1611	WR2069	WR2230	WR0279	WR1326	WR1816	WR0614	WR1455
F	WR1309	WR0381	WR0870	WR1439	WR1550	WR1335	WR1356	WR0814	WR1341	WR0410	WR0209	WR0515
G	WR1310	WR2411	WR1220	WR1547	WR1544	WR1918	WR0821	WR1314	WR1456	WR0859	WR1351	WR0649
H	WR1972	WR1500	WR1089	WR1368	WR1843	WR1632	WR0764	WR1654	WR1444	WR0888	WR1481	WR1879

### Amount and concentration of DNA

The DNA concentration is measured using the ds DNA Quantitation kit (Molecular Probes, USA) on a Fluroskan Ascent from Labsystems (Type 374).

The DNA is dissolved in 10mM Tris (pH8) 1mM EDTA to preserve the quality of the DNA.

Total DNA per sample: Minimum of 2µg  
Concentration: Target 100ng/µl Typical range +/- 10ng/µl  
Recoverable volume: 20µl

Version date 16/06/08

**Storage**

ECACC DNA panels are supplied frozen to preserve quality and also to facilitate handling. On receipt, the panels should be stored at -80oC. The DNA array presentation is intended for single use although, with care, repeat use is possible. After thawing, panel can be stored at 2-8oC for 6 months provided precautions are taken to prevent fluid loss by evaporation.

Repeated freeze-thawing cycles can damage the DNA and should be avoided.

**Use of DNA Panels**

Remove the panels from its polythene bag / packaging and make sure this Data Sheet is retained safely. Do not remove the foil seal.

Place the panels on a level surface, top uppermost and allow to thaw. Centrifuge the plate to force all the fluid to the bottom of the well. Do not remove the foil seal until these precautions have been observed.

Important - If it is not possible to centrifuge the plates then the foil seal must be removed immediately after removal from freezer storage. (If the plate is allowed to thaw, liquid may condense on the underside of the foil seal.)

Alternatively the foil seal may be pierced using a sharp point to allow access to micropipette tips. This approach minimises the risk of cross contamination associated with the action of peeling off the foil seal.

Use a micropipette to withdraw the required amount of DNA solution from the array.

**Warnings and Precautions**

Avoid cross contamination between different samples comprising an array. Do not repeatedly use the same foil seal. Remove the seal with care. Use clean pipette tips for each specimen.

The master cell banks used to prepare the DNA extracts are taken from 'low risk' normal blood donors. However it is recommended that standard laboratory precautions for handling potentially infectious material should be employed.

**Limitations of Use**

ECACC DNA Panels are intended for research use only.