

Manufactured by:



## Warren Type 2 Diabetes DNA Panel 6

### Product Data Sheet

Product No: DUKW2 Panel 6 (2µg)

ECACC Catalogue No. 06090112

### 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	WR1174	WR1153	WR0248	WR0333	WR0435	WR0243	WR0960	WR0666	WR0947	WR1223	WR0188	WR0327
B	WR0975	WR1031	WR0387	WR0303	WR1206	WR0041	WR1195	WR0957	WR1297	WR0347	WR0507	WR0547
C	WR1053	WR1045	WR0315	WR0433	WR1182	WR0062	WR1255	WR1012	WR1144	WR0545	WR0528	WR0097
D	WR1243	WR0718	WR0359	WR0341	WR0204	WR0021	WR0952	WR2212	WR1077	WR1652	WR0532	WR0446
E	WR1402	WR0054	WR0407	WR0290	WR0087	WR1251	WR0903	WR1105	WR0232	WR0869	WR0441	WR0492
F	WR0084	WR1146	WR0431	WR0392	WR0225	WR0496	WR0045	WR0943	WR1221	WR0413	WR0471	WR0474
G	WR1274	WR0330	WR0363	WR0399	WR0079	WR1256	WR2523	WR2547	WR0176	WR0256	WR0408	WR0451
H	WR1024	WR0379	WR0288	WR0417	WR1178	WR1225	WR0043	WR0988	WR0051	WR0072	WR0367	WR0668

### 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

**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.