

Manufactured by:



## Warren Type 2 Diabetes DNA Panel 4

### Product Data Sheet

Product No: DUKW2 Panel 4 (2µg)

ECACC Catalogue No. 06090110

### 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	WR2174	WR1992	WR2325	WR0491	WR2605	WR1040	WR2153	WR1458	WR1877	WR0737	WR0520	WR2292
B	WR2060	WR2314	WR1998	WR0358	WR2616	WR2257	WR1242	WR0990	WR0599	WR0643	WR0024	WR0044
C	WR2170	WR2312	WR2307	WR0500	WR1697	WR2287	WR1186	WR1530	WR0605	WR0751	WR0058	WR0754
D	WR2088	WR2125	WR2181	WR2610	WR0190	WR0902	WR1007	WR2274	WR0874	WR0899	WR0542	WR1779
E	WR2100	WR2268	WR2163	WR2619	WR2615	WR1118	WR1241	WR0618	WR1036	WR0778	WR1109	WR2289
F	WR2223	WR2227	WR2010	WR0657	WR1966	WR1234	WR1462	WR0639	WR0155	WR0813	WR1780	WR1057
G	WR2106	WR2263	WR2224	WR1130	WR1524	WR2291	WR2042	WR0612	WR0791	WR0699	WR2016	WR0271
H	WR2030	WR2113	WR2159	WR1958	WR2012	WR0909	WR1862	WR2123	WR1543	WR0328	WR1252	WR1662

### 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.