

Manufactured by:



## Warren Type 2 Diabetes DNA Panel 2

### Product Data Sheet

Product No: DUKW2 Panel 2 (2µg)

ECACC Catalogue No. 06090108

### 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	WR2198	WR1388	WR1832	WR1599	WR2258	WR2520	WR1969	WR1828	WR1844	WR1676	WR1971	WR2378
B	WR2094	WR0698	WR1563	WR1367	WR1873	WR1875	WR1921	WR1812	WR1685	WR1644	WR1963	WR2389
C	WR2602	WR1323	WR1938	WR2075	WR1840	WR1640	WR1739	WR1836	WR1717	WR1671	WR1970	WR2364
D	WR1552	WR2137	WR1519	WR2038	WR1842	WR0773	WR1866	WR1749	WR1703	WR1825	WR1913	WR2062
E	WR1575	WR1380	WR1018	WR2426	WR2604	WR1449	WR1759	WR1847	WR1750	WR1630	WR1687	WR2324
F	WR1604	WR1360	WR1349	WR2433	WR1358	WR1821	WR1561	WR1802	WR1893	WR1633	WR1962	WR2352
G	WR2473	WR1482	WR2437	WR2401	WR2521	WR0200	WR1558	WR1827	WR1824	WR1727	WR1890	WR2377
H	WR0339	WR1613	WR2177	WR0201	WR2577	WR1880	WR1807	WR1857	WR1723	WR1965	WR2131	WR1910

### 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.