

Manufactured by:



Warren Type 2 Diabetes DNA Panel 5

Product Data Sheet

Product No: DUKW2 Panel 5 (2µg)

ECACC Catalogue No. 06090111

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	WR1777	WR1346	WR1621	WR0136	WR0124	WR0243	WR1961	WR0565	WR0597	WR0946	WR1115	WR1072
B	WR0132	WR1127	WR1104	WR2316	WR0091	WR0530	WR0022	WR0587	WR0704	WR1080	WR1181	WR1006
C	WR0862	WR1359	WR1313	WR0456	WR0188	WR0127	WR0414	WR1546	WR1106	WR1093	WR0940	WR1215
D	WR2151	WR2077	WR1308	WR0208	WR0011	WR0192	WR483	WR0656	WR1102	WR0057	WR2057	WR0896
E	WR1232	WR0211	WR1424	WR0527	WR0066	WR0511	WR1262	WR0755	WR0844	WR1548	WR0961	WR1270
F	WR1430	WR1417	WR1811	WR0401	WR0140	WR0420	WR0626	WR0585	WR2526	WR0073	WR1004	WR1280
G	WR1429	WR467	WR1229	WR0244	WR0006	WR0317	WR0516	WR0652	WR1298	WR0964	WR1011	WR0907
H	WR1680	WR2065	WR1391	WR0494	WR0373	WR0151	WR0615	WR1670	WR1264	WR1083	WR1032	WR0202

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.