

Manufactured by:



Warren Type 2 Diabetes DNA Panel 3

Product Data Sheet

Product No: DUKW2 Panel 3 (2µg)

ECACC Catalogue No. 06090109

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	WR1909	WR2081	WR0313	WR2519	WR2176	WR2446	WR2522	WR2353	WR2588	WR2460	WR0029	WR2033
B	WR1974	WR2383	WR0130	WR2253	WR2587	WR2119	WR2438	WR2154	WR2022	WR2499	WR2189	WR2184
C	WR2245	WR2315	WR0138	WR0466	WR2427	WR1594	WR2500	WR2406	WR2397	WR2454	WR2201	WR2005
D	WR2269	WR2386	WR0090	WR2478	WR2367	WR1738	WR2413	WR2504	WR2420	WR2447	WR2056	WR2199
E	WR2323	WR2343	WR0559	WR1497	WR2394	WR1419	WR2620	WR2477	WR2418	WR2122	WR2085	WR2090
F	WR2252	WR1943	WR0233	WR2592	WR2281	WR0298	WR2444	WR2432	WR2171	WR1535	WR2055	WR2134
G	WR2242	WR0106	WR0234	WR1465	WR2451	WR1876	WR2442	WR2501	WR2221	WR2040	WR2087	WR1987
H	WR1996	WR1090	WR2597	WR0688	WR2396	WR2515	WR2443	WR2506	WR2218	WR2140	WR1985	WR2200

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.