

# Human Random Control DNA Panels

## Product Data Sheet

**Product No:** HRC-3 (2µg)

Distributed by:



### Intended Use

ECACC Human Random Control (HRC) DNA Panels are intended as an aid to determining the characteristics of DNA from apparently normal, randomly selected subjects as a basis for comparison with DNA from subjects that have been selected for particular phenotypic characters.

### Description

HRC DNA is extracted from lymphoblastoid cell lines derived by Epstein Barr Virus (EBV) transformation of peripheral blood lymphocytes from fresh, single donor blood samples. The donors are all UK Caucasian and are characterised by gender and age at venesection. 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 panel 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. Consequently ECACC HRC DNA Panels can be used as Reference Standard material as an aid to routine quality control in the laboratory.

### Sample details

The table below provides the individual sample designation, sex (M = male F = female), and age of donor at venesection (e.g. 31yr) if known.

	1	2	3	4	5	6	7	8	9	10	11	12
<b>A</b>	C0925 M	C0093 F	C0019 M 48yr	C0024 M	C0028 M	C0032 M	C0037 M 32yr	C0039 M 40yr	C0041 M 41yr	C0042 M 52yr	C0049 M 43yr	C0054 M 42yr
<b>B</b>	C0059 M 52yr	C0069 M 51yr	C0070 M 52yr	C0074 M 34yr	C0092 M	C0112 M 25yr	C0127 M 43yr	C0132 M 42yr	C0133 M	C0134 M 48yr	C0206 M	C0142 M 44yr
<b>C</b>	C0144 M 42yr	C0153 M 50yr	C0155 M 58yr	C0205 M	C0211 M	C0745 M	C0138 M 40yr	C0004 M 28yr	C0003 F 35yr	C0005 M	C0209 M	C0932 M
<b>D</b>	C0922 M	C0935 M	C0012 M	C0943 M	C0845 M	C0965 M	C0910 M	C0911 M	C0915 M	C0936 M	C0928 M	C0931 M
<b>E</b>	C0948 M	C0951 M	C0020 F	C0046 F 34yr	C0082 F 40yr	C0116 F 28yr	C0117 F	C0129 F 32yr	C0872 F	C0193 F 47yr	C0200 F 26yr	C0131 F 31yr
<b>F</b>	C0146 F 41yr	C0169 F 32yr	C0175 F 28yr	C0181 F 46yr	C0199 F 32yr	C0104 F 43yr	C0829 F	C0213 F	C0214 F	C0743 F	C0125 F 28yr	C0163 F
<b>G</b>	C0043 M	C0867 F	C0875 F	C0158 F 33yr	C0926 M	C0835 F	C0918 F	C0919 F	C0927 F	C0929 F	C0013 F 39yr	C0942 F
<b>H</b>	C0945 F	C0946 F	C0957 F	C0962 F	C0885 F	C0966 F	C0970 F	C0980 F	C0985 F	C0964 F	C0847 F	UKTS9 034 F

## Amount and concentration of DNA

The DNA concentration is measured using the NanoDrop 1000 spectrophotometer.

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
Minimum 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 -80°C. The DNA panel presentation is intended for single use although, with care, repeat use is possible. After thawing, panel can be stored at 2-8°C 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 panel from its polythene bag / packaging and make sure this Data Sheet is retained safely. Do not remove the foil seal.

Place the panel 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 panel.

## Warnings and Precautions

Avoid cross contamination between different samples comprising a panel. Do not repeatedly use the same foil seal. Remove adhesive sealers 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.