Manufactured by:

Human Random Control DNA Panels **Product Data Sheet**



Product No: HRC-2 (2µg) Accession No: 06041302 Lot No: Assigned at time of order

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. The DNA panels are designed for single use and can be used directly in automated gene analysis systems.

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
Α	C0871	C0006	C0781	C0968	C0085	C0921	C0084	C0854	C0154	C0868	C0098	C0124
	M	F 30yr	M	M	M 37yr	M	M 49yr	M	F 56yr	M	M 27yr	M
В	C0030	C0010	C0203	C0920	C0091	C0137	C1010	C0851	C0880	C0106	C0123	C0001
	M	M 28yr	M 45yr	M	M 41yr	M 33yr	M	M	M	M 24yr	M 49yr	M 34 yr
С	C0881	C0753	C0977	C0149	C0741	C0891	SG0125	C0755	C1011	C0882	C0850	C0052
	M	M	M	M 42yr	M	M	M	F	M	M	M	M 30yr
D	C0047	C0874	C1008	C0883	C0018	C0848	C0832	C0055	C0060	C0731	C0886	C0738
	M 39yr	M	M	M	M 36yr	M	M	M 42yr	M 37yr	M	M	M
Е	C0724	C0723	C0742	C0730	C0191	C0959	C0139	C0180	C0892	C0958	C0178	C0967
	F	F	F	F	F 27yr	F	F 39yr	F 49yr	F	F	F 50yr	F
F	C0894	C0002	C0201	C0160	C0994	C0197	C0895	C0186	C0728	C0016	C0192	C0135
	F	M 34yr	F 29yr	F 49yr	F	F 48yr	F 39yr	F 30yr	F	F32yr	F 28yr	F 39yr
G	C0956	C0009	C0749	C0196	C0008	C0058	C0035	C0167	C0082	C0750	C0902	C0172
	F	F 34yr	F 38yr	F 44yr	F 43yr	F 42yr	F	F 39yr	F 40yr	F	F	F 40yr
н	C0111	C0893	C0897	C0862	C0166	C0861	C0040	C0038	C0168	C0190	C0022	C0159
	F	F	F	F	F 29yr	F	F 36yr	F 47yr	F 49yr	F 32yr	F	F 46yr

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: Concentration: Minimum Recoverable volume: Minimum of 2µg Target 100ng/µl typical range +/- 10ng/µl 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 seals 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.

Note for End Users

Earlier versions of this panel contained a sample which has since been replaced. Please note the following changes:

Original Sample	Panel Location	Replaced with Sample	Lot Number of Last Panel Containing Original Sample	Date Amended
C0015	E3	C0742	11F035	August 2011
C0065	G9	C0082	19J045	February 2020



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