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SIGMA-ALDRICH®

Ethnic Diversity DNA Panel Product Data Sheet

Product No: EDP-1 (2µg)

Accession No: 07020701p

Lot No: Assigned at time of order

Intended Use

ECACC Ethnic Diversity DNA Panels (EDP-1) 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 arrays are designed for single use and can be used directly in automated gene analysis systems.

Description

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 EDP 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, gender information is provided where known and age data is not available.

	1	2	3	4	5	6	7	8	9	10	11	12
A	591 Japanese Male	KT17 Japanese female	BM14 Italian Male	SPO010 Italian Female	WON,I Aust. Aborig. male	DCH007 Thai Male	HARA Oriental Unknown	WATANABE Oriental Male	IDF Ashk.Jew Male	DUCAF French Male	RML S.A.Indian Male	C0935 Caucasian Male
B	AKIBA Japanese female	KT2 Japanese female	BM15 Italian Male	WT100BIS Italian Male	WON,M Aust. Aborig. Male	DCH008 Thai Male	HAU,ML Oriental Male	WHONP192 Oriental Male	LWAGS Ashk.Jew Male	FJO French Cauc. Male	AMALA S.A. Indian female	C0915 Caucasian Male
C	EK-TOK Japanese Male	KT3 Japanese Male	BM16 Italian female	WT47 Italian Male	WOO,EM Aust. Aborig. female	DCH009 Thai Male	HOKKAIDO Oriental Male	WHONP199 Oriental female	MZ070782 Ashk.Jew Male	FORE French Cauc. female	SPL S.A. Indian Male	C0919 Caucasian female
D	HID Japanese Male	SA Japanese Male	BM21 German/Itali an. Male	HAY,KJ Aust. Aborig. Male	BUR,E Aust. Aborig. female	TE BLANK	HOSONUM Oriental Male	MP0008 Bl.African Male	YAR Ashk.Jew Male	HO104 French Male	LZL S.A. Indian female	C0125 Caucasian female
E	HS67 Japanese Male	SM Japanese Male	BM9 Italian Female	IHL,AD031 Aust. Aborig. Male	CHI -007 Thai Male	DCH010 Thai Male	KAWASAKI Oriental Male	MP0010 Bl.African female	BON-CT French Male	HO301 French female	KRC-110 S.A. Indian female	C0163 Caucasian female
F	KOZ Japanese Female	TE BLANK	BRIP Italian Male	IHL,AD036 Aust. Aborig. Male	CHI-034 Thai female	DCH011 Thai female	KIME Oriental Male	MP0014 Bl.African Female	BONA French Cauc. Male	15310-LN French Cauc female	GRC-138 S.A. Indian Male	C0175 Caucasian female
G	KT12 Japanese Male	TAB089 Japanese Male	CALOGERO Italian Male	NON,L Aust. Aborig. female	DCH002 Thai female	DCH012 Thai Male	KUROIWA Oriental Male	MP0021 Bl.African Male	CF996 French Male	MARMarg French Cauc. female	GRC-187 S.A. Indian Male	C0176 Caucasian female
H	KT14 Japanese Male	YI Japanese Male	J0528239 Italian Male	WON,C Aust. Aborig. Male	DCH006 Thai female	PETCH Oriental Male	NP369 Oriental Male	FPAF Ashk.Jew Male	TE BLANK	PF04015 French female	GRC-212 S.A. Indian Male	TE BLANK

Key: Germ/Ita = German/Italian, Aust.Aborig. = Australian Aborigine, Bl.African = Black African, Ashk.Jew = Ashkenazi Jewish, French. Cauc. = French Caucasian, French.Can. = French Canadian, S.A.Indian = South American Indian.

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Amount and concentration of DNA

The DNA concentration is measured using the NanoDrop N1000 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 arrays are supplied frozen to preserve quality and also to facilitate handling. On receipt, panels should be stored at -80°C. The DNA array 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 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.