

DNA-Depleted EDTA Plasma

The Best Human Plasma Base Matrix for Extraction Process Controls

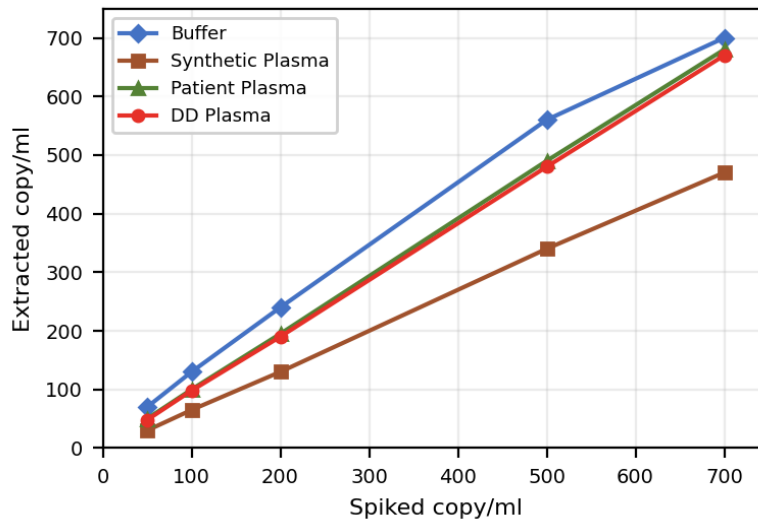
Human plasma is a complex biological matrix. When validating sensitivity and specificity of nucleic acid detection systems, it is important to use a base matrix that accurately represents a real patient specimen. DNA-Depleted Plasma provides the ideal matrix for spiking studies, extraction controls, and assay validation.

Product	Cat. No.	Size
DD Plasma (DNA-Depleted Plasma)	60601001	50, 200, 500, 1000 ml

DNA-depleted Plasma is the Best Human Plasma Base Matrix for an Extraction Process Control

While the DNA has been removed, important components such as exosomes, lipids, and other blood proteins are retained — making it an ideal representation of a real patient sample.

Fig 1. Matrix Effect of ctDNA Extraction



ctDNA fragments spiked into four matrices, extracted via commercial kit, quantitated by qPCR. DD Plasma matched real patient plasma performance.

Specifications

Parameter	Value
DNA	< 10 pg/ml
Total protein	5-7 g/dL
IgG	5-18 mg/mL
IgA	0.5-5 mg/mL
IgM	0.3-3 mg/mL
Total Cholesterol	100-250 mg/dL
HDL	25-75 mg/dL
VLDL	5-45 mg/dL
LDL	60-175 mg/dL
Triglycerides	25-225 mg/dL
Exosome count	>10 ⁹ /mL
pH	7.2-7.6
Pathogen Screen	Neg for HIV/HBV/HCV/HTLV/Syph



RNA Fusion Controls

Custom RNA Fusion Controls for Molecular Testing in FFPE or Plasma

16 Popular Fusions by Oncogene

Oncogene	Panel 1	Panel 2	Panel 3	Panel 4
ALK	EML4-ALK v1	EML4-ALK v2	EML4-ALK v3a	EML4-ALK v3b
NTRK	ETV6-NTRK3	TPM3-NTRK1	LMNA-NTRK1	ETV6-NTRK1
RET	KIF5B-RET	CCDC6-RET	NCOA4-RET	TRIM33-RET
ROS	CD74-ROS1	SLC34A2-ROS1	SDC4-ROS1	EZR-ROS1

33 Fusions by Cancer Type

Cancer Type	Panel	Fusions
Lung	Lung1	EML4-ALK v1, EML4-ALK v3a, KIF5B-RET, CD74-ROS1, SLC34A2-ROS1
	Lung2	TPM3-NTRK1, LMNA-NTRK1, CCDC6-RET, EZR-ROS1
	Lung3	EML4-ALK v2, NCOA4-RET, SDC4-ROS1
	Lung4	EML4-ALK v3b, TRIM33-RET, ETV6-NTRK3
Sarcoma	Sarc1	ETV6-NTRK3, EWSR1-FLI1, SS18-SSX1, PAX3-FOXO1
	Sarc2	TPM3-NTRK1, EWSR1-ERG, SS18-SSX2, PAX7-FOXO1
Thyroid	Thy1	CCDC6-RET, NCOA4-RET, ETV6-NTRK3, PAX8-PPARG
	Thy2	STRN-ALK, TPM3-NTRK1, AGK-BRAF
Prostate	Pros1	TMPRSS2-ERG, SLC45A3-ERG, ETV6-NTRK3
	Pros2	TMPRSS2-ETV1, SLC45A3-BRAF
Skin	Skin1	BRAF-AGK, TPM3-NTRK1, ETV6-NTRK3
Liver	Liver1	DNAJB1-PRKACA, ETV6-NTRK3, TPM3-NTRK1
Kidney	Kid1	TFE3-SFPQ, TFE3-PRCC, TFEB-MALAT1
Heme	Heme1	BCR-ABL1 (p210), BCR-ABL1 (p190), PML-RARA
	Heme2	ETV6-RUNX1, KMT2A-AFF1, CBFβ-MYH11

