

Certificate of Analysis

Human 50-Donors Pooled Liver S9 Fraction

FOR RESEARCH USE ONLY. Not intended for human or animal diagnostic or therapeutic uses. Users need to wear personal protective equipment during work.

Catalog number: S9-H-50

Batch numbers: S9-H-50-01

1. Specific Content and Enzymes Activities

Enzyme	Content / Rate
Cytochrome P450 content	nmol/mg protein 0.201

Enzyme	Marker	[S]	Result*
CYP1A2	Phenacetin O-deethylation	1 μ M	142
CYP2A6	Coumarin 7-hydroxylation	1 μ M	321
CYP2B6	Bupropion hydroxylation	1 μ M	117
CYP2C8	Amodiaquine N-deethylation	1 μ M	440
CYP2C9	Diclofenac 4'-hydroxylation	1 μ M	531
CYP2C19	Mephenytoin hydroxylation	5 μ M	27
CYP2D6	Dextromethorphan O-demethylation	1 μ M	62
CYP2E1	Chlorzoxazone 6-hydroxylation	1 μ M	414
CYP3A4/5	Testosterone 6 β -hydroxylation	5 μ M	792

*Metabolite rate of formation is measured in pmol/min/mg protein

2. Product Information

Storage conditions	-80 °C
Shipping conditions	Dry ice
Packaging	1 ml with at least 10 mg/ml protein content
Final protein content	11 mg/ml
Production date	14 October 2024
Expiry date	5 Years

3. Viral RNA Detection by qPCR

Virus	Specification	Result
Hepatitis B		Positive <input type="radio"/> Negative X
Hepatitis C	Negative	Positive <input type="radio"/> Negative X
HIV-1 and HIV-2		Positive <input type="radio"/> Negative X

4. Donors Information

Donor ID	Sex	Ethnicity	Age	Tobacco use	Alcohol use	Pathology or Cause of Death
LIV100002	M	Caucasian	55	No	Yes	Colorectal cancer
LIV100003	F	Caucasian	30	No	No	Hemangioma
LIV100004	M	Caucasian	44	No	No	Hemangioma
LIV100005	M	Caucasian	39	Yes	Yes	Colorectal cancer
LIV100006	F	Caucasian	62	No	No	Hemangioma
LIV100007	F	Caucasian	54	No	No	Colorectal cancer
LIV100008	F	Caucasian	64	No	No	Hepatocellular carcinoma
LIV100012	F	Caucasian	62	No	Yes	Hepatocellular carcinoma
LIV100014	M	Caucasian	70	No	No	Hepatocellular carcinoma
LIV100015	M	Caucasian	59	No	No	Colorectal cancer
LIV100016	M	Caucasian	71	No	No	Hemorrhagic stroke
LIV100017	F	Caucasian	69	Yes	Yes	Cystadenoma
LIV100018	F	Caucasian	58	No	No	Colorectal cancer
LIV100019	F	Caucasian	57	No	No	Colorectal cancer
LIV100021	F	Caucasian	51	No	No	Colorectal cancer
LIV100023	F	Caucasian	86	No	No	Colorectal cancer
LIV100024	M	Caucasian	66	No	No	Colorectal cancer

Donor ID	Sex	Ethnicity	Age	Tobacco use	Alcohol use	Pathology or Cause of Death
LIV100026	F	Caucasian	72	No	No	Cholangiocarcinoma
LIV100027	M	Caucasian	66	No	No	Colorectal cancer
LIV100029	M	Caucasian	38	Yes	No	Head Trauma
LIV100030	F	Caucasian	62	No	No	Colorectal cancer
LIV100031	M	Caucasian	56	Yes	No	Cholangiocarcinoma
LIV100032	M	Caucasian	60	No	No	Colorectal cancer
LIV100033	F	Caucasian	61	No	No	Colorectal cancer
LIV100034	M	Caucasian	60	No	No	Klatskin tumor
LIV100036	M	Caucasian	60	No	No	Colorectal cancer
LIV100037	F	Caucasian	58	No	No	Colorectal cancer
LIV100038	F	Caucasian	82	No	No	Hepatocellular carcinoma
LIV100039	M	Caucasian	56	No	No	Colorectal cancer
LIV100041	M	Caucasian	30	No	No	Hepatocellular carcinoma
LIV100042	F	Caucasian	53	No	No	Hepatocellular carcinoma
LIV100043	M	Caucasian	64	No	No	Colorectal cancer
LIV100044	F	Caucasian	66	No	No	Colorectal cancer
LIV100045	M	Caucasian	49	No	No	Cholangiocarcinoma
LIV100046	F	Caucasian	68	No	No	Duct cyst
LIV100047	M	Caucasian	77	Yes	No	Cystadenoma
LIV100048	M	Caucasian	48	Yes	Yes	Colorectal cancer
LIV100051	F	Caucasian	73	No	No	Cystadenoma
LIV100057	M	Caucasian	80	No	No	Colorectal cancer
LIV100058	F	Caucasian	32	No	No	Cholangiocarcinoma
LIV100059	F	Caucasian	59	No	No	Colorectal cancer
LIV100061	M	Caucasian	75	No	Yes	Colorectal cancer
LIV100062	M	Caucasian	86	No	No	Duct cyst
LIV100063	M	Caucasian	70	Yes	No	Colorectal cancer
LIV100080	F	Caucasian	56	No	No	Colorectal cancer with metastases
LIV100081	F	Caucasian	61	No	Yes	Colorectal cancer with metastases
LIV100082	M	Caucasian	78	No	No	Cholangiocarcinoma
LIV100083	F	Caucasian	48	Yes	Yes	Cystadenoma
LIV100084	M	Caucasian	52	No	Yes	Colorectal cancer with metastases

5. Visa for Batch Release

Name	Signature	Date
Andrey Simonov		12/08/2024