

Certificate of Analysis

Human 50-Donors Pooled Liver Microsomes

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: MIC-H50

Batch numbers: MIC-H-201

1. Specific Content and Enzymes Activities

Enzyme		Content / Rate
Cytochrome P450 content	nmol/mg protein	0.455
NADPH-cytochrome c reductase	nmol/mg protein min	TBD

Enzyme	Marker	[S]	Result*
CYP1A2	Phenacetin O-deethylation	1 μ M	5.5
CYP2A6	Coumarin 7-hydroxylation	1 μ M	560.2
CYP2B6	Bupropion hydroxylation	1 μ M	1.62
CYP2C8	Amodiaquine N-deethylation	1 μ M	TBD
CYP2C9	Diclofenac 4'-hydroxylation	1 μ M	343.7
CYP2C19	Mephenytoin hydroxylation	5 μ M	0.038
CYP2D6	Dextromethorphan O-demethylation	1 μ M	18.55
CYP2E1	Chlorzoxazone 6-hydroxylation	1 μ M	2.75
CYP3A4/5	Testosterone 6 β -hydroxylation	5 μ M	0.43
CYP3A4/5	Nifedipine oxidation	1 μ M	239.7

*Clint is measured in μ L/min/mg protein

2. Product Information

Storage conditions	-80 °C
Shipping conditions	Dry ice
Packaging	0.5 ml with at least 20 mg/ml protein content
Final protein content	22 mg/ml
Production date	06 July 2024
Expiry date	5 Years

3. Viral RNA Detection by qPCR

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

4. Donors Information

Donor ID	Sex	Ethnicity	Age	Tobacco use	Alcohol use	Pathology or Cause of Death
FOI101B093	F	Caucasian	57	N/A	N/A	Colorectal cancer liver metastases
FOI101B094	M	Caucasian	76	N/A	N/A	Colorectal cancer liver metastases
FOI101B108	F	Caucasian	66	N/A	N/A	Colorectal cancer liver metastases
FOI101B124	M	Caucasian	78	N/A	N/A	Colorectal cancer liver metastases
FOI101B093	F	Caucasian	57	N/A	N/A	Klatskin tumor IV type for Bismuth
FOI101B094	M	Caucasian	76	N/A	N/A	Colorectal cancer liver metastases
FOI101B108	F	Caucasian	66	N/A	N/A	Cancer of the left kidney
FOI101B124	M	Caucasian	78	N/A	N/A	Colorectal cancer liver metastases
FOI101B093	F	Caucasian	57	N/A	N/A	Cancer of the sigmoid colon
FOI101B094	M	Caucasian	76	N/A	N/A	Cholangiocarcinoma
FOI101B108	F	Caucasian	66	N/A	N/A	Intrahepatic cholangiocarcinoma
FOI101B124	M	Caucasian	78	N/A	N/A	Cyst of the right lobar duct.
FOI101B093	F	Caucasian	57	N/A	N/A	Cholangiocarcinoma
FOI101B094	M	Caucasian	76	N/A	N/A	Colorectal cancer liver metastases
FOI101B108	F	Caucasian	66	N/A	N/A	Hepatic cyst
FOI101B124	M	Caucasian	78	N/A	N/A	Cholangiocarcinoma
FOI101B093	F	Caucasian	57	N/A	N/A	Colorectal cancer liver metastases

Donor ID	Sex	Ethnicity	Age	Tobacco use	Alcohol use	Pathology or Cause of Death
LIN02-125	F	Caucasian	58	No	No	Colorectal cancer liver metastases
LIN02-126	F	Caucasian	57	No	No	Adenocarcinoma of sigmoidal colon
LIN02-130	F	Caucasian	51	No	No	Colorectal cancer liver metastases
LIN02-131	F	Caucasian	86	No	No	Colorectal cancer liver metastases
LIN02-133	M	Caucasian	66	No	No	Colorectal cancer liver metastases
LIN02-134	M	Caucasian	66	No	No	Colorectal cancer liver metastases
LIN02-136	F	Caucasian	62	No	No	Colorectal cancer liver metastases
LIN02-137	M	Caucasian	60	No	No	Colorectal cancer liver metastases
LIN02-138	F	Caucasian	61	No	No	Colorectal cancer liver metastases
LIN02-142	M	Caucasian	60	No	No	Colorectal cancer liver metastases
LIN02-143	F	Caucasian	58	No	No	Colorectal cancer liver metastases
LIN02-145	F	Caucasian	57	No	No	Colorectal cancer liver metastases
LIN02-146	M	Caucasian	30	No	No	Hepatocellular carcinoma
LIN02-148	F	Caucasian	66	No	No	Colorectal cancer liver metastases
LIN02-149	M	Caucasian	49	No	No	Colorectal cancer liver metastases
LIN02-150	M	Caucasian	65	No	No	Colorectal cancer liver metastasis
LIN02-152	F	Caucasian	50	No	No	Colorectal cancer liver metastasis
LIN02-155	F	Caucasian	47	No	No	Gastrointestinal stromal tumor
LIN02-158	M	Caucasian	61	No	No	Cancer of the left kidney
LIN02-159	M	Caucasian	62	No	No	Cancer of the sigmoid colon
LIN05-106	F	Caucasian	67	No	No	Intrahepatic cholangiocarcinoma
LIN09-108	M	Caucasian	44	No	No	Liver hemangioma
LIN09-111	F	Caucasian	64	No	No	Hepatocellular carcinoma
LIN09-113	M	Caucasian	46	Yes	No	Liver cyst
LIN09-126	M	Caucasian	56	Yes	No	Perihilar cholangiocarcinoma
LIN09-128	M	Caucasian	60	No	No	Klatskin tumor IV type for Bismuth
LIN09-131	M	Caucasian	64	No	No	Colorectal cancer liver metastases
LIN09-132	F	Caucasian	68	No	No	Cyst of the right lobar duct.
LIN09-137	F	Caucasian	69	No	No	Cholangiocarcinoma
LIN09-140	M	Caucasian	45	No	No	Perihilar cholangiocarcinoma
LIN09-141	F	Caucasian	54	No	No	Colorectal cancer liver metastases
LIN13-101	M	Caucasian	59	No	Yes	Hemorrhagic stroke
LIN13-103	M	Caucasian	71	No	No	Hemorrhagic stroke

5. Visa for Batch Release

Name
Andrey Simonov

Signature


Date
16/10/2024