

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Product Specification

Product Name:

Microsomes from Liver, Pooled - from human

Product Number:

M0317

Storage Temperature:

-70 °C

TEST	Specification
Vial content mL	≥ 0.4
pmol/mg protein (Concentration) Cytochrome P450	≥ 200
pmol/mg protein (Concentration) Cytochrome B5	≥ 130
nmol/min/mg protein (Enzyme Activity) Cytochrome C Reductase (OR) One unit will reduce 1 nanomole of Cytochrome C per minute at pH 7.4 at 37 deg C.	≥ 140
pmol/min/mg protein (Enzyme Activity) Phenacetin O-Deethylase (CYP1A2) One unit will produce 1.0 picomole of acetaminophen per minute at pH 7.4 at 37 deg.	≥ 300
pmol/min/mg protein (Enzyme Activity) Coumarin 7-hydroxylase (CYP2A6) One unit will produce 1.0 picomole of 7-hydroxycoumarin per minute at pH 7.5 at 37 deg C.	≥ 700
pmol/min/mg protein (Enzyme Activity) (S)-Mephenytoin N-Demethylase (CYP2B6) One unit will produce 1.0 picomole of nirvanol per minute at pH 7.4 at 37 deg C.	≥ 20
pmol/min/mg protein (Enzyme Activity) Paclitaxel 6-alpha-hydroxylase (CYP2C8) One unit will produce 1.0 picomole of 6-alpha-hydroxypaclitaxel per minute at pH 7.4 at 37 deg C.	≥ 50
pmol/min/mg protein (Enzyme Activity) Diclofenac 4'-Hydroxylase (CYP2C9) One unit will produce 1.0 picomole of 4'-hydroxydiclofenac per minute at pH 7.5 at 37 deg C.	≥ 1000

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



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pmol/min/mg protein	≥ 20
(Enzyme Activity)(S)-Mephenytoin 4'-Hydroxyase (CYP2C19)	One unit will produce 1.0 picomole of 4'hydroxymephenytoin per minute at pH 7.4 at 37 deg C.
pmol/min/mg protein	≥ 50
(Enzyme Activity) Bufuralol 1'-Hydroxylase (CYP2D6)	One unit will produce 1.0 picomole of 1'-hydroxylasebufuralol per minute at pH 7.4 at 37 deg C.
pmol/min/mg protein	≥ 1000
(Enzyme Activity) Chlorzoxazone 6'-Hydroxylase (CYP2E1)	One unit will produce 1.0 picomole of 6'-hydroxychlorzoxazone per minute at pH 7.4 at 37 deg C.
pmol/min/mg protein	≥ 1000
(Enzyme Activity) Testosterone 6-beta-hydroxylase (CYP3A4)	One unit will produce 1.0 picomole of 6-beta-hydroxytestosterone per minute at pH 7.4 at 37 deg C.
pmol/min/mg protein	≥ 500
(Enzyme Activity) Lauric Acid 12-Hydroxylase (CYP4A11)	One unit will produce 1.0 picomole of 12-Hydroxylauric acid per minute at pH 7.5 at 37 deg C.
pmol/min/mg protein	≥ 200
(Enzyme Activity) Methyl p-Tolyl Sulfide Oxidase (FMO)	One unit will produce 1.0 picomole of methyl p-tolyl sulfoxide per minute at pH 9.5 at 37 deg C.
mg protein/ml	≥ 10
Tested For Infectious Agents	Tested

Specification: PRD.2.ZQ5.10000012206

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