Release Notes for BAO version 2.8

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Release Date: April 28, 2023

About BAO

The BioAssay Ontology (BAO) has been developed to formally describe biological screening assays and their results including high-throughput screening (HTS) data; specifically in the domain of small molecule drug and probe development. BAO enables categorization of assays and results by based on several concepts that are important to interpret and analyze screening data with the goal to infer the mechanism of action of small molecules based on the known aggregate screening results from many assays.

Changes in BAO v 2.8

Deprecate BAO_0010223 (https://github.com/BioAssayOntology/BAO/issues/65) Curated annotations for ADME set of bioassays cardinality restriction for

- bioassay type (181) (https://github.com/BioAssayOntology/BAO/issues/72)
 - o 138 ADME (http://www.bioassayontology.org/bao#BAO 0000009)
 - o 43 functional (http://www.bioassayontology.org/bao#BAO 0000010)
- bioassay format (93) (https://github.com/BioAssayOntology/BAO/issues/70)
 - o 10 bioassays with more than one assay format
 - 1 biochemical format (http://www.bioassayontology.org/bao#BAO 0000217)
 - o 52 cell based format (http://www.bioassayontology.org/bao#BAO 0000219)
 - o 3 cytosol format (http://www.bioassayontology.org/bao#BAO 0000250)
 - o 33 microsome format (http://www.bioassayontology.org/bao#BAO 0000251)
 - o 3 plasma format (http://www.bioassayontology.org/bao#BAO 0020003)
 - o 1 tissue-based format (http://www.bioassayontology.org/bao#BAO 0000221)
- endpoint (112)
 - o 1 blood to plasma ratio (http://www.bioassayontology.org/bao#BAO 0080043)
 - o 7 EC50 (http://www.bioassayontology.org/bao#BAO 0000188)
 - o 7 ECMax (http://www.bioassayontology.org/bao#BAO 0002883)
 - o 7 fold change (http://www.bioassayontology.org/bao#BAO 0000193)
 - o 5 fraction unbound (http://www.bioassayontology.org/bao#BAO 0080040)
 - o 39 IC50 (http://www.bioassayontology.org/bao#BAO 0000190)
 - o 17 Ki (http://www.bioassayontology.org/bao#BAO 0000192)
 - o 2 Kinactivation (http://www.bioassayontology.org/bao#BAO 0001258)
 - o 2 km (http://www.bioassayontology.org/bao#BAO 0000477)
 - o 4 percent inhibition (http://www.bioassayontology.org/bao#BAO 0000201)
 - o 14 ratio endpoint (http://www.bioassayontology.org/bao#BAO_0080042)
 - o 5 T1/2(in vitro) (<u>http://www.bioassayontology.org/bao#BAO_0002768</u>)
 - o 2 vmax (http://www.bioassayontology.org/bao#BAO 0000586)

Change control tables for ADME cardinality restrictions (SEED)

Table 1. Curated annotations for 181 bioassays ADME cardinality restriction for bioassay type

bioassay	BAO ID	property_name	BAO ID	restriction	BAO ID	type
AOX reaction						
phenotyping	BAO_0010115	has bioassay type	BAO_0002854	only	BAO_0000009	ADME

BCRP inhibition	I		1	1		
assay BCRP inhibition	BAO_0010191	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
assay	BAO_0010191	has bioassay type	BAO_0002854	some	BAO_000010	functional
BCRP substrate assay	BAO_0010208	has bioassay type	BAO_0002854	some	BAO 0000009	ADME
BCRP substrate		, , ,		Some	_	
assay biliary excretion	BAO_0010208	has bioassay type	BAO_0002854	some	BAO_0000010	functional
assay	BAO_0010141	has bioassay type	BAO_0002854	only	BAO_0000009	ADME
blood to plasma ratio assay	BAO_0010132	has bioassay type	BAO_0002854	only	BAO_0000009	ADME
BSA binding asssay	BAO_0010137	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
BSEP inhibition assay	BAO 0010190	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
BSEP inhibition	_	, , ,	_		_	
Caco-2 permeability	BAO_0010190	has bioassay type	BAO_0002854	some	BAO_0000010	functional
assay	BAO_0010008	has bioassay type	BAO_0002854	only	BAO_0000009	ADME
cell homogenate stability assay	BAO_0010112	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
CES reaction phenotyping	BAO 0010119	has bioassay type	BAO 0002854	some	BAO 0000009	ADME
CYP chemical	_	, , ,	_		_	
inhibition assay CYP induction	BAO_0010124	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
assay	BAO_0010149	has bioassay type	BAO_0002854	some	BAO_000009	ADME
CYP induction assay	BAO_0010149	has bioassay type	BAO_0002854	some	BAO_0000010	functional
CYP induction screen	BAO_0010147	has bioassay type	BAO_0002854	some	BAO_000009	ADME
CYP inhibition	_	, ,,	_			
assay CYP mAb inhibition	BAO_0010159	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
assay CYP metabolite	BAO_0010127	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
formation kinetics						
assay CYP reaction	BAO_0010125	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
phenotyping assay	BAO_0010123	has bioassay type	BAO_0002854	only	BAO_0000009	ADME
CYP time dependent						
inhibition IC50	BAO_0010170	has bis assay time	BAO 0002854		BAO 0000009	ADME
CYP time-	BAO_0010170	has bioassay type	BAO_0002634	some	BAO_0000009	ADIVIE
dependent inhibition assay	BAO_0010169	has bioassay type	BAO_0002854	some	BAO_000009	ADME
CYP time	2.10_0010100	inde siededdy type	2.10_0002001		27.00_000000	7.52
dependent inhibition Ki/kinact						
assay CYP1A2 induction	BAO_0010171	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
assay	BAO_0010150	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
CYP1A2 induction assay	BAO_0010150	has bioassay type	BAO 0002854	some	BAO_000010	functional
CYP1A2 inhibition	_	, , ,	_			
CYP2B6 induction	BAO_0010160	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
assay CYP2B6 induction	BAO_0010151	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
assay	BAO_0010151	has bioassay type	BAO_0002854	some	BAO_0000010	functional
CYP2B6 inhibition assay	BAO_0010161	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
CYP2C19 induction	_	, , ,	_		_	
CYP2C19 induction	BAO_0010152	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
assay	BAO_0010152	has bioassay type	BAO_0002854	some	BAO_000010	functional

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interestitial fluid	Ī	İ	1	ı	ı	Ī
interstitial fluid stability assay	BAO_0010109	has bioassay type	BAO 0002854	only	BAO 0000009	ADME
intestinal fluid	_	, , ,	_	j	_	
stability assay LLCPK1 monolayer	BAO_0010106	has bioassay type	BAO_0002854	only	BAO_000009	ADME
permeability assay	BAO_0010088	has bioassay type	BAO_0002854	only	BAO_0000009	ADME
MAO reaction	_	, , , , , , , , , , , , , , , , , , , ,	_	,		
phenotyping mass balance	BAO_0010117	has bioassay type	BAO_0002854	only	BAO_0000009	ADME
assay	BAO 0010140	has bioassay type	BAO 0002854	only	BAO 0000009	ADME
MATE1 inhibition	_	, , , , , , , , , , , , , , , , , , , ,	_	,	_	
assay	BAO_0010194	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
MATE1 inhibition assay	BAO 0010194	has bioassay type	BAO 0002854	some	BAO 0000010	functional
MATE1 substrate		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			_	
assay	BAO_0010209	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
MATE1 substrate assay	BAO_0010209	has bioassay type	BAO_0002854	some	BAO_000010	functional
MATE2 inhibition	27.00_00.0200	inde bloddody type		356	_	
assay	BAO_0010195	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
MATE2 inhibition assay	BAO 0010195	has bioassay type	BAO 0002854	some	BAO 0000010	functional
MATE2 substrate	2/10_0010100	That bloadday type	B/10_0002001	001110		Tarrottorial
assay	BAO_0010210	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
MATE2 substrate assay	BAO 0010210	has bioassay type	BAO 0002854	some	BAO 0000010	functional
MDCK permeability	2710_0010210	That bloadday type	B/10_0002001	001110		Tarrottorial
assay	BAO_0010086	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
MDCK permeability assay	BAO_0010086	has bioassay type	BAO_0002854	some	BAO 0000010	functional
MDCK-BCRP	BAO_0010000	nas bioassay type	BAO_0002004	301110	BAO_0000010	idifoliorial
permeability assay	BAO_0010085	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
MDCK-BCRP permeability assay	BAO_0010085	has bioassay type	BAO_0002854	some	BAO_000010	functional
MDCKII monolayer	BAO_0010003	nas bioassay type	DAO_0002034	Some	DAO_000010	lunctional
permeability assay	BAO_0010089	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
MDCKII monolayer permeability assay	BAO 0010089	has bioassay type	BAO 0002854	some	BAO 0000010	functional
media binding	DAO_0010009	nas bioassay type	BAO_0002034	Some	DAO_000010	lunctional
assay	BAO_0010136	has bioassay type	BAO_0002854	only	BAO_0000009	ADME
metabolic stability assay	BAO 0010095	has bioassay type	BAO 0002854	only	BAO 0000009	ADME
metabolite	BAO_0010093	nas bioassay type	DAO_0002034	Offity	DAO_0000009	ADIVIL
identification and	D. O. OO. (000)		D. C. 0000054		B. C.	
profiling assay microsomal binding	BAO_0010091	has bioassay type	BAO_0002854	only	BAO_0000009	ADME
assay	BAO_0010138	has bioassay type	BAO_0002854	only	BAO_0000009	ADME
microsomal stability	D. O. O. (1000)		D. O. 0000054		B. C.	10115
assay milk excretion	BAO_0010006	has bioassay type	BAO_0002854	only	BAO_000009	ADME
assay	BAO_0010142	has bioassay type	BAO_0002854	only	BAO_0000009	ADME
monoamine						
oxidase inhibition MRP2 inhibition	BAO_0010158	has bioassay type	BAO_0002854	some	BAO_000009	ADME
assay	BAO_0010192	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
MRP2 inhibition						
assay MRP2 substrate	BAO_0010192	has bioassay type	BAO_0002854	some	BAO_000010	functional
assay	BAO_0010207	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
MRP2 substrate			_			
non-specific protein	BAO_0010207	has bioassay type	BAO_0002854	some	BAO_000010	functional
binding assay	BAO_0002531	has bioassay type	BAO_0002854	only	BAO_0000009	ADME
OAT1 inhibition			_	•		
OAT1 inhibition	BAO_0010197	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
assay	BAO_0010197	has bioassay type	BAO_0002854	some	BAO_000010	functional
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OAT1 substrate	1		I	1	1	1
assay	BAO_0010212	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
OAT1 substrate assay	BAO_0010212	has bioassay type	BAO_0002854	some	BAO_000010	functional
OAT2 inhibition assay	BAO 0010198	has bioassay type	BAO 0002854	some	BAO 0000009	ADME
OAT2 inhibition	_		_		_	
assay OAT2 substrate	BAO_0010198	has bioassay type	BAO_0002854	some	BAO_000010	functional
assay OAT2 substrate	BAO_0010213	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
assay	BAO_0010213	has bioassay type	BAO_0002854	some	BAO_0000010	functional
OAT3 inhibition assay	BAO 0010199	has bioassay type	BAO 0002854	some	BAO 0000009	ADME
OAT3 inhibition	_	7 71	_		PAO 0000010	
OAT3 substrate	BAO_0010199	has bioassay type	BAO_0002854	some	BAO_0000010	functional
assay OAT3 substrate	BAO_0010214	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
assay	BAO_0010214	has bioassay type	BAO_0002854	some	BAO_000010	functional
OATP1B1 inhibition assay	BAO_0010200	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
OATP1B1 inhibition assay	BAO_0010200	has bioassay type	BAO 0002854	some	BAO_0000010	functional
OATP1B1 substrate	_	, ,	_		_	
assay OATP1B1 substrate	BAO_0010215	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
assay OATP1B3 inhibition	BAO_0010215	has bioassay type	BAO_0002854	some	BAO_0000010	functional
assay	BAO_0010201	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
OATP1B3 inhibition assay	BAO_0010201	has bioassay type	BAO_0002854	some	BAO_000010	functional
OATP1B3 substrate assay	BAO_0010216	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
OATP1B3 substrate	_		_		_	
assay OATP2B1 substrate	BAO_0010216	has bioassay type	BAO_0002854	some	BAO_000010	functional
assay OATP2B1 substrate	BAO_0010219	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
assay	BAO_0010219	has bioassay type	BAO_0002854	some	BAO_000010	functional
OCT1 inhibition assay	BAO_0010202	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
OCT1 inhibition assay	BAO 0010202	has bioassay type	BAO 0002854	some	BAO 0000010	functional
OCT1 substrate	_				_	
assay OCT1 substrate	BAO_0010217	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
assay OCT2 inhibition	BAO_0010217	has bioassay type	BAO_0002854	some	BAO_0000010	functional
assay	BAO_0010203	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
OCT2 inhibition assay	BAO_0010203	has bioassay type	BAO_0002854	some	BAO_000010	functional
OCT2 substrate assay	BAO_0010218	has bioassay type	BAO 0002854	some	BAO_0000009	ADME
OCT2 substrate	_		_		_	
assay p-gp induction	BAO_0010218	has bioassay type	BAO_0002854	some	BAO_000010	functional
assay P-gp inhibition	BAO_0010187	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
assay	BAO_0010193	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
P-gp inhibition assay	BAO_0010193	has bioassay type	BAO_0002854	some	BAO_000010	functional
P-gp substrate assay	BAO_0010206	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
P-gp substrate	_		_		_	
assay	BAO_0010206	has bioassay type	BAO_0002854	some	BAO_0000010	functional
permeability assay	BAO_0010083	has bioassay type	BAO_0002854	only	BAO_0000009	ADME

placental transfer	1	1	1	I	I	I
assay	BAO_0010134	has bioassay type	BAO_0002854	only	BAO_0000009	ADME
plasma protein binding assay	BAO_0010135	has bioassay type	BAO_0002854	only	BAO_0000009	ADME
plasma stability assay	BAO_0010007	has bioassay type	BAO_0002854	only	BAO_000009	ADME
plated human hepatocytes assay	BAO_0010222	has bioassay type	BAO_0002854	only	BAO_0000009	ADME
receptor induction assay recombinant CYP	BAO_0010144	has bioassay type	BAO_0002854	some	BAO_000009	ADME
reaction phenotyping	BAO_0010126	has bioassay type	BAO_0002854	some	BAO_000009	ADME
recombinant esterases	BAO_0010122	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
recombinant UGT reaction phenotyping	BAO_0010131	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
relative induction score	BAO_0010156	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
renal excretion assay	BAO_0010143	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
RRCK permeability assay	BAO_0010087	has bioassay type	BAO_0002854	only	BAO_0000009	ADME
RRCK permeability assay	BAO_0010087	has bioassay type	BAO_0002854	only	BAO_000010	functional
S9 stability assay	BAO 0010097	has bioassay type	BAO 0002854	only	BAO 0000009	ADME
sandwich cultured human hepatocyte assay	BAO_0010221	has bioassay type	BAO_0002854	some	BAO_000009	ADME
simulated gastric fluid stability assay	BAO_0010104	has bioassay type	BAO_0002854	some	BAO_000009	ADME
simulated gastric fluid stability assay (with enzymes)	BAO_0010105	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
simulated interstitial fluid stability assay	BAO_0010110	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
simulated intestinal fluid stability assay	BAO_0010108	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
simulated intestinal fluid stability assay (with enzymes)	BAO_0010107	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
tissue binding assay	BAO_0010133	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
tissue homogenate stability assay	BAO_0010111	has bioassay type	BAO_0002854	only	BAO_0000009	ADME
transporter assay	BAO_0003008	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
induction assay transporter	BAO_0010186	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
inhibition assay transporter	BAO_0010188	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
inhibition assay transporter	BAO_0010188	has bioassay type	BAO_0002854	some	BAO_0000010	functional
substrate assay	BAO_0010204	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
transporter substrate assay	BAO_0010204	has bioassay type	BAO_0002854	some	BAO_0000010	functional
UGT chemical inhibition assay	BAO_0010129	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
UGT induction assay	BAO_0010148	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
UGT inhibition assay	BAO_0010173	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
UGT metabolite formation kinetics assay	BAO_0010130	has bioassay type	BAO_0002854	some	BAO_0000009	ADME

UGT1A1 with BSA						
assay	BAO_0010174	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
UGT1A1 without						
BSA assay	BAO_0010175	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
UGT1A4 with BSA	D. O. OO. (O. ()		D. O. OOOOOT.		B. C. COCCO	
assay	BAO_0010176	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
UGT1A4 without	DAO 0040477	has bissess, tons	DAO 0000054		DAO 0000000	ADME
BSA assay UGT1A6 with BSA	BAO_0010177	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
	BAO 0010178	has bioassay type	BAO 0002854	some	BAO 0000009	ADME
ugt1A6 without	DAO_0010176	nas bioassay type	DAU_0002004	Some	DAO_000009	ADIVIE
BSA assay	BAO_0010179	has bioassay type	BAO 0002854	some	BAO_0000009	ADME
UGT1A9 with BSA	B/10_0010170	nao bioadday typo	B/10_000200+	301110	B/10_000000	/ IDIVIL
assay	BAO 0010180	has bioassay type	BAO 0002854	some	BAO 0000009	ADME
UGT1A9 without		The area and a specific and a specif				
BSA assay	BAO_0010181	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
UGT2B15 with BSA		, , ,				
assay	BAO_0010182	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
UGT2B15 without						
BSA assay	BAO_0010183	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
UGT2B7 with BSA						
assay	BAO_0010184	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
UGT2B7 without	DAG 0040405		DAG 0000054		D. A. G.	45145
BSA assay	BAO_0010185	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
uptake transporter	DAO 0010106	has bissessed time	DAO 0000054		DAO 000000	ADME
inhibition assay	BAO_0010196	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
uptake transporter inhibition assay	BAO 0010196	has bioassay type	BAO 0002854	some	BAO 0000010	functional
uptake transporter	DAO_0010190	nas bioassay type	DAO_0002034	Some	DAO_000010	iuncional
substrate assay	BAO_0010211	has bioassay type	BAO_0002854	some	BAO_0000009	ADME
uptake transporter	2,.3_0010211	5100000, 1,50	5, 10_000200 F	301110	27.10_000000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
substrate assay	BAO 0010211	has bioassay type	BAO 0002854	some	BAO 0000010	functional
Ussing chamber	_	7.77	_		_	
permeability assay	BAO_0010084	has bioassay type	BAO_0002854	only	BAO_0000009	ADME
whole blood				-		
stability assay	BAO_0010098	has bioassay type	BAO_0002854	only	BAO_0000009	ADME

Table 2. Curated annotations for 93 bioassays ADME cardinality restriction for bioassay format

bioassay	BAO ID	property name	BAO ID	restriction	BAO ID	format
BCRP inhibition assay	BAO_0010191	has assay format	BAO_0000205	some	BAO_0000219	cell based format
BCRP substrate assay	BAO_0010208	has assay format	BAO_0000205	some	BAO_0000219	cell based format
blood to plasma ratio assay	BAO_0010132	has assay format	BAO_0000205	some	BAO_0020003	plasma format
BSA binding asssay	BAO_0010137	has assay format	BAO_0000205	some	BAO_0000217	biochemical format
BSEP inhibition assay	BAO_0010190	has assay format	BAO_0000205	some	BAO_0000219	cell based format
Caco-2 permeability assay	BAO_0010008	has assay format	BAO_0000205	some	BAO_0000219	cell based format
CYP chemical inhibition assay	BAO_0010124	has assay format	BAO_0000205	some	BAO_0000219	cell based format
CYP induction assay	BAO_0010149	has assay format	BAO_0000205	some	BAO_0000219	cell based format
CYP inhibition assay	BAO_0010159	has assay format	BAO_0000205	some	BAO_0000251	microsome format
CYP metabolite formation kinetics assay	BAO_0010125	has assay format	BAO_0000205	some	BAO_0000251	microsome format
CYP reaction phenotyping assay	BAO_0010123	has assay format	BAO_0000205	some	BAO_0000219	cell based format
CYP reaction phenotyping assay	BAO_0010123	has assay format	BAO_0000205	some	BAO_0000251	microsome format
CYP reaction phenotyping assay	BAO_0010123	has assay format	BAO_0000205	some	BAO_0000250	cytosol format

CYP time	l	1	ſ	1	I	1
dependent						
inhibition IC50	D. O.		D. O.		D. O. OOOOOT /	microsome
assay	BAO_0010170	has assay format	BAO_0000205	some	BAO_0000251	format
CYP time dependent						
inhibition Ki/kinact						microsome
assay	BAO_0010171	has assay format	BAO_0000205	some	BAO_0000251	format
CYP time-	_	Í			_	
dependent						microsome
inhibition assay	BAO_0010169	has assay format	BAO_0000205	some	BAO_0000251	format
CYP1A2 induction	DAO 0040450	h	DAO 000000F		DAO 0000040	cell based
assay CYP1A2 inhibition	BAO_0010150	has assay format	BAO_0000205	some	BAO_0000219	format microsome
assay	BAO_0010160	has assay format	BAO 0000205	some	BAO_0000251	format
CYP2B6 induction	B/10_0010100	nao aosay ioimat	B/10_0000200	SOME	B/10_0000201	cell based
assay	BAO_0010151	has assay format	BAO_0000205	some	BAO_0000219	format
CYP2B6 inhibition						microsome
assay	BAO_0010161	has assay format	BAO_0000205	some	BAO_0000251	format
CYP2C19	DAG 0040450		DAG 0000005		D. A. O.	cell based
induction assay	BAO_0010152	has assay format	BAO_0000205	some	BAO_0000219	format
CYP2C19 inhibition assay	BAO 0010162	has assay format	BAO 0000205	some	BAO 0000251	microsome format
CYP2C8 induction	DAO_0010102	ilas assay loililat	DAO_0000203	Some	DAO_0000231	cell based
assay	BAO_0010153	has assay format	BAO 0000205	some	BAO 0000219	format
CYP2C8 inhibition		,				microsome
assay	BAO_0010163	has assay format	BAO_0000205	some	BAO_0000251	format
CYP2C9 induction						cell based
assay	BAO_0010154	has assay format	BAO_0000205	some	BAO_0000219	format
CYP2C9 inhibition	DAO 00404C4	h	DAO 000000F		DAO 00000E4	microsome
assay CYP3A4 induction	BAO_0010164	has assay format	BAO_0000205	some	BAO_0000251	format cell based
assay	BAO_0010155	has assay format	BAO_0000205	some	BAO_0000219	format
CYP3A4 inhibition	27.10_0010100	inde deedy ionnat	27.10_0000200	000	27.10_0002.10	microsome
assay	BAO_0010165	has assay format	BAO_0000205	some	BAO_0000251	format
cytosol stability						
assay	BAO_0010096	has assay format	BAO_0000205	only	BAO_0000250	cytosol format
definitive CYP	DAO 0040400	h	DAO 000000F		DAO 00000E4	microsome
IC50 assay CYP cocktail	BAO_0010168	has assay format	BAO_0000205	some	BAO_0000251	format microsome
inhibition assay	BAO_0010166	has assay format	BAO_0000205	some	BAO_0000251	format
efflux transporter	27.0_00.0.00	inde decay remain	27.10_0000200		27.10_0000201	cell based
inhibition assay	BAO_0010189	has assay format	BAO_0000205	some	BAO_0000219	format
efflux transporter						cell based
substrate assay	BAO_0010205	has assay format	BAO_0000205	some	BAO_0000219	format
hepatocyte relay	DAG 0040440	haran franch	DAG 0000005		DAG 0000040	cell based
with inhibitors hepatocyte stability	BAO_0010118	has assay format	BAO_0000205	some	BAO_0000219	format cell based
assay	BAO 0010100	has assay format	BAO 0000205	some	BAO 0000219	format
LLCPK1		accay format	3.10_000000	555	3.10_000210	
monolayer						cell based
permeability assay	BAO_0010088	has assay format	BAO_0000205	some	BAO_0000219	format
MAO reaction						cell based
phenotyping	BAO_0010117	has assay format	BAO_0000205	some	BAO_0000219	format
MAO reaction phenotyping	BAO_0010117	has assay format	BAO 0000205	como	BAO 0000251	microsome format
MAO reaction	BAO_0010117	nas assay ioimat	BAO_0000205	some	BAU_0000231	Iomat
phenotyping	BAO 0010117	has assay format	BAO 0000205	some	BAO_0000250	cytosol format
MATE1 inhibition		Se seeing remove				cell based
assay	BAO_0010194	has assay format	BAO_0000205	some	BAO_0000219	format
MATE1 substrate						cell based
assay	BAO_0010209	has assay format	BAO_0000205	some	BAO_0000219	format
MATE2 inhibition	DAO 0040405	has assau forms at	DAO 0000005		DAO 0000040	cell based
MATE2 substrate	BAO_0010195	has assay format	BAO_0000205	some	BAO_0000219	format cell based
	BAO_0010210	has assay format	BAO_0000205	como	BAO_0000219	format
assav	DAU UUTUZTU					
assay MDCK permeability	DAO_0010210	nas assay ionnat	BAO_0000203	some	DAO_0000219	cell based

MDCK-BCRP permeability assay	BAO 0010085	has assay format	BAO 0000205	some	BAO 0000219	cell based format
MDCKII monolayer permeability assay	BAO 0010089	has assay format	BAO 0000205	some	BAO 0000219	cell based format
microsomal binding	_	,	_		_	microsome
assay microsomal	BAO_0010138	has assay format	BAO_0000205	some	BAO_0000251	format microsome
stability assay monoamine	BAO_0010006	has assay format	BAO_0000205	some	BAO_0000251	format microsome
oxidase inhibition MRP2 inhibition	BAO_0010158	has assay format	BAO_0000205	some	BAO_0000251	format cell based
assay MRP2 substrate	BAO_0010192	has assay format	BAO_0000205	some	BAO_0000219	format cell based
assay non-specific	BAO_0010207	has assay format	BAO_0000205	some	BAO_0000219	format
protein binding assay	BAO_0002531	has assay format	BAO_0000205	some	BAO_0000219	cell based format
OAT1 inhibition assay	BAO_0010197	has assay format	BAO_0000205	some	BAO_0000219	cell based format
OAT1 substrate assay	BAO_0010212	has assay format	BAO_0000205	some	BAO_0000219	cell based format
OAT2 inhibition assay	BAO_0010198	has assay format	BAO_0000205	some	BAO_0000219	cell based format
OAT2 substrate assay	BAO_0010213	has assay format	BAO_0000205	some	BAO_0000219	cell based format
OAT3 inhibition assay	BAO_0010199	has assay format	BAO 0000205	some	BAO_0000219	cell based format
OAT3 substrate assay	BAO 0010214	has assay format	BAO 0000205	some	BAO 0000219	cell based format
OATP1B1	BAO 0010200	,	BAO_0000205		BAO 0000219	cell based format
inhibition assay OATP1B1 substrate assay	BAO_0010200 BAO_0010215	has assay format has assay format	BAO_0000205	some	BAO_0000219	cell based format
OATP1B3		,				cell based
inhibition assay OATP1B3	BAO_0010201	has assay format	BAO_0000205	some	BAO_0000219	format cell based
OATP2B1	BAO_0010216	has assay format	BAO_0000205	some	BAO_0000219	format cell based
Substrate assay OCT1 inhibition	BAO_0010219	has assay format	BAO_0000205	some	BAO_0000219	format cell based
OCT1 substrate	BAO_0010202	has assay format	BAO_0000205	some	BAO_0000219	format cell based
assay OCT2 inhibition	BAO_0010217	has assay format	BAO_0000205	some	BAO_0000219	format cell based
assay OCT2 substrate	BAO_0010203	has assay format	BAO_0000205	some	BAO_0000219	format cell based
assay P-gp inhibition	BAO_0010218	has assay format	BAO_0000205	some	BAO_0000219	format cell based
assay P-gp substrate	BAO_0010193	has assay format	BAO_0000205	some	BAO_0000219	format
assay	BAO_0010206	has assay format	BAO_0000205	some	BAO_0000219	cell based format
plasma protein binding assay	BAO_0010135	has assay format	BAO_0000205	some	BAO_0020003	plasma format
plasma stability assay	BAO_0010007	has assay format	BAO_0000205	some	BAO_0020003	plasma format
recombinant UGT reaction	PAO 0010424	has assay format	DAO 0000005	aomo	PAO 0000254	microsome
phenotyping RRCK permeability	BAO_0010131	has assay format	BAO_0000205	some	BAO_0000251	format cell based
assay tissue binding	BAO_0010087	has assay format	BAO_0000205	some	BAO_0000219	format tissue-based
assay tissue binding	BAO_0010133	has assay format	BAO_0000205	some	BAO_0000221	format cell based
assay transporter	BAO_0010133	has assay format	BAO_0000205	some	BAO_0000219	format cell based
inhibition assay transporter	BAO_0010188	has assay format	BAO_0000205	some	BAO_0000219	format cell based
substrate assay	BAO_0010204	has assay format	BAO_0000205	some	BAO_0000219	format

BAO 0010129	has assay format	BAO 0000205	some	BAO 0000251	microsome format
DAO_0010123	nas assay ioiniat	DAO_0000200	301110	BAO_0000201	microsome
BAO 0010173	has assay format	BAO 0000205	some	BAO 0000251	format
	,				microsome
BAO_0010174	has assay format	BAO_0000205	some	BAO_0000251	format
					microsome
BAO_0010175	has assay format	BAO_0000205	some	BAO_0000251	format
BAO 0010176	has assay format	BAO 0000205	some	RAO 0000251	microsome format
B/10_0010110	nas assay format	B/10_0000200	Johne	B/10_0000201	microsome
BAO 0010177	has assay format	BAO 0000205	some	BAO 0000251	format
					microsome
BAO_0010178	has assay format	BAO_0000205	some	BAO_0000251	format
_		_			microsome
BAO_0010179	has assay format	BAO_0000205	some	BAO_0000251	format
					microsome
BAO_0010180	has assay format	BAO_0000205	some	BAO_0000251	format
					microsome
BAO_0010181	has assay format	BAO_0000205	some	BAO_0000251	format
	1.				microsome
BAO_0010182	has assay format	BAO_0000205	some	BAO_0000251	format
D. A. O. A. O. A. O.	1	D.A.O. 0000005		DAG 0000054	microsome
BAO_0010183	has assay format	BAO_0000205	some	BAO_0000251	format
DAO 0010194	has assay format	DAO 000000E		DAO 0000251	microsome
BAU_0010104	nas assay ionnat	BAU_0000205	some	BAU_0000231	format
DAO 0010185	has assay format	BVO 000030E	como	PAO 0000251	microsome format
DAO_0010100	iias assay iuiiiial	DAU_0000200	Sume	DAU_000231	cell based
BAO 0010196	has assay format	BAO 0000205	some	BAO 0000219	format
DAO_0010130	nas assay ionnat	DAO_0000203	301116	DAO_0000213	cell based
BAO 0010211	has assay format	BAO 0000205	some	BAO 0000219	format
	BAO_0010174 BAO_0010175 BAO_0010176 BAO_0010177 BAO_0010178 BAO_0010179	BAO_0010173 has assay format BAO_0010174 has assay format BAO_0010175 has assay format BAO_0010176 has assay format BAO_0010177 has assay format BAO_0010178 has assay format BAO_0010179 has assay format BAO_0010180 has assay format BAO_0010181 has assay format BAO_0010182 has assay format BAO_0010183 has assay format BAO_0010184 has assay format BAO_0010185 has assay format BAO_0010196 has assay format	BAO_0010173 has assay format BAO_0000205 BAO_0010174 has assay format BAO_0000205 BAO_0010175 has assay format BAO_0000205 BAO_0010176 has assay format BAO_0000205 BAO_0010177 has assay format BAO_0000205 BAO_0010178 has assay format BAO_0000205 BAO_0010179 has assay format BAO_0000205 BAO_0010180 has assay format BAO_0000205 BAO_0010181 has assay format BAO_0000205 BAO_0010182 has assay format BAO_0000205 BAO_0010183 has assay format BAO_0000205 BAO_0010184 has assay format BAO_0000205 BAO_0010185 has assay format BAO_0000205 BAO_0010196 has assay format BAO_0000205	BAO_0010173 has assay format BAO_0000205 some BAO_0010174 has assay format BAO_0000205 some BAO_0010175 has assay format BAO_0000205 some BAO_0010176 has assay format BAO_0000205 some BAO_0010177 has assay format BAO_0000205 some BAO_0010178 has assay format BAO_0000205 some BAO_0010179 has assay format BAO_0000205 some BAO_0010180 has assay format BAO_0000205 some BAO_0010181 has assay format BAO_0000205 some BAO_0010182 has assay format BAO_0000205 some BAO_0010183 has assay format BAO_0000205 some BAO_0010184 has assay format BAO_0000205 some BAO_0010185 has assay format BAO_0000205 some BAO_0010196 has assay format BAO_0000205 some	BAO_0010173 has assay format BAO_0000205 some BAO_0000251 BAO_0010174 has assay format BAO_0000205 some BAO_0000251 BAO_0010175 has assay format BAO_0000205 some BAO_0000251 BAO_0010176 has assay format BAO_0000205 some BAO_0000251 BAO_0010177 has assay format BAO_0000205 some BAO_0000251 BAO_0010178 has assay format BAO_0000205 some BAO_0000251 BAO_0010179 has assay format BAO_0000205 some BAO_0000251 BAO_0010180 has assay format BAO_0000205 some BAO_0000251 BAO_0010181 has assay format BAO_0000205 some BAO_0000251 BAO_0010182 has assay format BAO_0000205 some BAO_0000251 BAO_0010184 has assay format BAO_0000205 some BAO_0000251 BAO_0010185 has assay format BAO_0000205 some BAO_0000251 BAO_0010186 has assay format BAO_0000205

Table 3. Curated annotations for 112 bioassays ADME cardinality restriction for endpoint

bioassay	BAO ID	property_name	BAO ID	restriction	BAO ID	format
blood to plasma						blood to plasma
ratio assay	BAO_0010132	has endpoint	BAO_0000208	only	BAO_0080043	ratio
CYP induction	DAG 0040440	1	DAG 0000000		DAG 0000400	E050
assay	BAO_0010149	has endpoint	BAO_0000208	some	BAO_0000188	EC50
CYP1A2 induction	BAO 0010150	has and noint	BAO 0000208		BAO 0000188	EC50
assay CYP2B6 induction	DAO_0010130	has endpoint	DAU_0000200	some	DAU_0000100	EC30
assay	BAO 0010151	has endpoint	BAO 0000208	some	BAO 0000188	EC50
CYP2C19						
induction assay	BAO_0010152	has endpoint	BAO_0000208	some	BAO_0000188	EC50
CYP2C8 induction						
assay	BAO_0010153	has endpoint	BAO_0000208	some	BAO_0000188	EC50
CYP2C9 induction						
assay	BAO_0010154	has endpoint	BAO_0000208	some	BAO_0000188	EC50
CYP3A4 induction						
assay	BAO_0010155	has endpoint	BAO_0000208	some	BAO_0000188	EC50
CYP induction	DAO 0040440	has andraint	DAO 0000000		DAO 0000000	ECMax
assay CYP1A2 induction	BAO_0010149	has endpoint	BAO_0000208	some	BAO_0002883	ECIVIAX
assay	BAO 0010150	has endpoint	BAO 0000208	some	BAO 0002883	ECMax
CYP2B6 induction	DAO_0010130	nas enupoint	BAO_0000200	Some	DAO_0002003	LOIVIAX
assay	BAO 0010151	has endpoint	BAO 0000208	some	BAO 0002883	ECMax
CYP2C19	27.10_00.10.10.1	o oapot	27.10_0000200	333	27.10_0002000	20
induction assay	BAO_0010152	has endpoint	BAO_0000208	some	BAO_0002883	ECMax
CYP2C8 induction		·				
assay	BAO_0010153	has endpoint	BAO_0000208	some	BAO_0002883	ECMax
CYP2C9 induction						
assay	BAO_0010154	has endpoint	BAO_0000208	some	BAO_0002883	ECMax
CYP3A4 induction						
assay	BAO_0010155	has endpoint	BAO_0000208	some	BAO_0002883	ECMax
CYP induction	BAO 0040440	leas and salat	DAG 0000000		DAG 0000400	fold above
assay	BAO_0010149	has endpoint	BAO_0000208	some	BAO_0000193	fold change

CYP1A2 induction	1	1	1	i	ı	I
assay	BAO_0010150	has endpoint	BAO_0000208	some	BAO_0000193	fold change
CYP2B6 induction assay	BAO_0010151	has endpoint	BAO_0000208	some	BAO_0000193	fold change
CYP2C19 induction assay	BAO_0010152	has endpoint	BAO_0000208	some	BAO_0000193	fold change
CYP2C8 induction assay	BAO_0010153	has endpoint	BAO_0000208	some	BAO_0000193	fold change
CYP2C9 induction assay	BAO_0010154	has endpoint	BAO_0000208	some	BAO_0000193	fold change
CYP3A4 induction assay	BAO 0010155	has endpoint	BAO 0000208	some	BAO 0000193	fold change
BSA binding asssay	BAO 0010137	has endpoint	BAO 0000208	only	BAO 0080040	fraction unbound
microsomal binding	BAO 0010138	has endpoint	BAO 0000208	some	BAO 0080040	fraction unbound
non-specific protein binding	27.10_00.10.100	пас опаротк	5/10_0000200		27.0_000010	THE STATE OF THE S
assay blasma protein	BAO_0002531	has endpoint	BAO_0000208	some	BAO_0080040	fraction unbound
oinding assay	BAO_0010135	has endpoint	BAO_0000208	some	BAO_0080040	fraction unbound
issue binding assay	BAO_0010133	has endpoint	BAO_0000208	some	BAO_0080040	fraction unbound
BCRP inhibition	BAO_0010191	has endpoint	BAO_0000208	some	BAO_0000190	IC50
BSEP inhibition assay	BAO_0010190	has endpoint	BAO_0000208	some	BAO_0000190	IC50
CYP inhibition assay	BAO_0010159	has endpoint	BAO_0000208	some	BAO_0000190	IC50
CYP time dependent inhibition IC50 assay CYP time-	BAO_0010170	has endpoint	BAO_0000208	some	BAO_0000190	IC50
dependent nhibition assay	BAO_0010169	has endpoint	BAO_0000208	some	BAO_0000190	IC50
CYP1A2 inhibition assay	BAO_0010160	has endpoint	BAO_0000208	some	BAO_0000190	IC50
CYP2B6 inhibition assay	BAO_0010161	has endpoint	BAO_0000208	some	BAO_0000190	IC50
CYP2C19 nhibition assay	BAO_0010162	has endpoint	BAO_0000208	some	BAO_0000190	IC50
CYP2C8 inhibition assay	BAO_0010163	has endpoint	BAO_0000208	some	BAO_0000190	IC50
CYP2C9 inhibition assay	BAO_0010164	has endpoint	BAO_0000208	some	BAO_0000190	IC50
CYP3A4 inhibition assay	BAO_0010165	has endpoint	BAO_0000208	some	BAO_0000190	IC50
definitive CYP C50 assay	BAO_0010168	has endpoint	BAO_0000208	only	BAO_0000190	IC50
MATE1 inhibition assay	BAO_0010194	has endpoint	BAO_0000208	some	BAO_0000190	IC50
MATE2 inhibition assay	BAO_0010195	has endpoint	BAO_0000208	some	BAO_0000190	IC50
monoamine oxidase inhibition	BAO_0010158	has endpoint	BAO_0000208	some	BAO_0000190	IC50
MRP2 inhibition	BAO_0010192	has endpoint	BAO_0000208	some	BAO 0000190	IC50
DAT1 inhibition	BAO_0010197	has endpoint	BAO_0000208	some	BAO_0000190	IC50
DAT2 inhibition assay	BAO 0010198	has endpoint	BAO_0000208	some	BAO_0000190	IC50
DAT3 inhibition	BAO_0010198	·	BAO_0000208		BAO_0000190	IC50
OATP1B1	_	has endpoint		some	_	
inhibition assay OATP1B3	BAO_0010200	has endpoint	BAO_0000208	some	BAO_0000190	IC50
nhibition assay	BAO_0010201	has endpoint	BAO_0000208	some	BAO_0000190	IC50

OCT1 inhibition		Í	1	I	İ	1
assay	BAO_0010202	has endpoint	BAO_0000208	some	BAO_0000190	IC50
OCT2 inhibition assay	BAO_0010203	has endpoint	BAO_0000208	some	BAO_0000190	IC50
P-gp inhibition assay	BAO_0010193	has endpoint	BAO_0000208	some	BAO_0000190	IC50
P-gp inhibition	_		_			
assay transporter	BAO_0010193	has endpoint	BAO_0000208	some	BAO_0000190	IC50
inhibition assay UGT inhibition	BAO_0010188	has endpoint	BAO_0000208	some	BAO_0000190	IC50
assay	BAO_0010173	has endpoint	BAO_0000208	some	BAO_0000190	IC50
UGT1A1 with BSA assay	BAO_0010174	has endpoint	BAO_0000208	some	BAO_0000190	IC50
UGT1A1 without BSA assay	BAO 0010175	has endpoint	BAO 0000208	some	BAO 0000190	IC50
UGT1A4 with BSA	_		_	Some	_	
assay UGT1A4 without	BAO_0010176	has endpoint	BAO_0000208	some	BAO_0000190	IC50
BSA assay	BAO_0010177	has endpoint	BAO_0000208	some	BAO_0000190	IC50
UGT1A6 with BSA assay	BAO_0010178	has endpoint	BAO_0000208	some	BAO_0000190	IC50
UGT1A6 without BSA assay	BAO_0010179	has endpoint	BAO_0000208	some	BAO_0000190	IC50
UGT1A9 with BSA	_		_		_	
assay UGT1A9 without	BAO_0010180	has endpoint	BAO_0000208	some	BAO_0000190	IC50
BSA assay UGT2B15 with	BAO_0010181	has endpoint	BAO_0000208	some	BAO_0000190	IC50
BSA assay	BAO_0010182	has endpoint	BAO_0000208	some	BAO_0000190	IC50
UGT2B15 without BSA assay	BAO_0010183	has endpoint	BAO_0000208	some	BAO_0000190	IC50
UGT2B7 with BSA	_		_		_	IC50
assay UGT2B7 without	BAO_0010184	has endpoint	BAO_0000208	some	BAO_0000190	
BSA assay BCRP inhibition	BAO_0010185	has endpoint	BAO_0000208	some	BAO_0000190	IC50
assay	BAO_0010191	has endpoint	BAO_0000208	some	BAO_0000192	Ki
BSEP inhibition assay	BAO_0010190	has endpoint	BAO_0000208	some	BAO_0000192	Ki
CYP time dependent						
inhibition Ki/kinact						
assay CYP time-	BAO_0010171	has endpoint	BAO_0000208	some	BAO_0000192	Ki
dependent inhibition assay	BAO 0010169	has endpoint	BAO 0000208	some	BAO 0000192	Ki
MATE1 inhibition	_		_	Some		
assay MATE2 inhibition	BAO_0010194	has endpoint	BAO_0000208	some	BAO_0000192	Ki
assay	BAO_0010195	has endpoint	BAO_0000208	some	BAO_0000192	Ki
MRP2 inhibition assay	BAO_0010192	has endpoint	BAO_0000208	some	BAO_0000192	Ki
OAT1 inhibition assay	BAO_0010197	has endpoint	BAO_0000208	some	BAO 0000192	Ki
OAT2 inhibition	_		_		_	
OAT3 inhibition	BAO_0010198	has endpoint	BAO_0000208	some	BAO_0000192	Ki
assay OATP1B1	BAO_0010199	has endpoint	BAO_0000208	some	BAO_0000192	Ki
inhibition assay	BAO_0010200	has endpoint	BAO_0000208	some	BAO_0000192	Ki
OATP1B3 inhibition assay	BAO_0010201	has endpoint	BAO_0000208	some	BAO_0000192	Ki
OCT1 inhibition	_		_		_	
assay OCT2 inhibition	BAO_0010202	has endpoint	BAO_0000208	some	BAO_0000192	Ki
assay	BAO_0010203	has endpoint	BAO_0000208	some	BAO_0000192	Ki

P-gp inhibition	I	1	1		1	1
assay	BAO_0010193	has endpoint	BAO_0000208	some	BAO_0000192	Ki
P-gp inhibition assay	BAO_0010193	has endpoint	BAO_0000208	some	BAO_0000192	Ki
transporter inhibition assay	BAO 0010188	has endpoint	BAO 0000208	some	BAO 0000192	Ki
CYP time	BAO_0010100	rias criapoliti	BAO_0000200	301110	BAO_0000132	N
dependent						
inhibition Ki/kinact assay	BAO 0010171	has endpoint	BAO 0000208	some	BAO 0001258	Kinactivation
CYP time-	BAO_0010171	nas enupoint	BAO_0000200	Some	BAO_0001230	Kinactivation
dependent						
inhibition assay hepatocyte stability	BAO_0010169	has endpoint	BAO_0000208	some	BAO_0001258	Kinactivation
assay	BAO_0010100	has endpoint	BAO_0000208	some	BAO_0000477	km
microsomal stability assay	BAO_0010006	has endpoint	BAO_0000208	some	BAO_0000477	km
CYP chemical	DAG 0040404	harandariat	DAG 0000000		DAO 0000004	
inhibition assay CYP metabolite	BAO_0010124	has endpoint	BAO_0000208	only	BAO_0000201	percent inhibition
formation kinetics						
assay	BAO_0010125	has endpoint	BAO_0000208	only	BAO_0000201	percent inhibition
CYP reaction phenotyping assay	BAO 0010123	has endpoint	BAO 0000208	only	BAO 0000201	percent inhibition
MAO reaction			_	, , , , , , , , , , , , , , , , , , ,	-	F
phenotyping	BAO_0010117	has endpoint	BAO_0000208	only	BAO_0000201	percent inhibition
BCRP substrate assay	BAO 0010208	has endpoint	BAO 0000208	some	BAO 0080042	ratio endpoint
MATE1 substrate assay	BAO_0010209	has endpoint	BAO_0000208	some	BAO_0080042	ratio endpoint
MATE2 substrate	DAG 0040040		DAG 0000000		DA 0. 0000040	
assay MRP2 substrate	BAO_0010210	has endpoint	BAO_0000208	some	BAO_0080042	ratio endpoint
assay	BAO_0010207	has endpoint	BAO_0000208	some	BAO_0080042	ratio endpoint
OAT1 substrate assay	BAO_0010212	has endpoint	BAO_0000208	some	BAO_0080042	ratio endpoint
OAT2 substrate assay	BAO_0010213	has endpoint	BAO_0000208	some	BAO_0080042	ratio endpoint
OAT3 substrate assay	BAO_0010214	has endpoint	BAO_0000208	some	BAO_0080042	ratio endpoint
OATP1B1 substrate assay	BAO_0010215	has endpoint	BAO_0000208	some	BAO_0080042	ratio endpoint
OATP1B3 substrate assay	BAO_0010216	has endpoint	BAO_0000208	some	BAO_0080042	ratio endpoint
OATP2B1 substrate assay	BAO_0010219	has endpoint	BAO_0000208	some	BAO_0080042	ratio endpoint
OCT1 substrate assay	BAO_0010217	has endpoint	BAO_0000208	some	BAO_0080042	ratio endpoint
OCT2 substrate assay	BAO_0010218	has endpoint	BAO_0000208	some	BAO_0080042	ratio endpoint
P-gp substrate assay	BAO_0010206	has endpoint	BAO 0000208	some	BAO 0080042	ratio endpoint
transporter	DAO_0010200	παο σπαροππ	DAO_0000200	SUITE	DAO_000042	ταιίο σπαροίπι
substrate assay	BAO_0010204	has endpoint	BAO_0000208	some	BAO_0080042	ratio endpoint
cytosol stability assay	BAO_0010096	has endpoint	BAO_0000208	only	BAO_0002768	T1/2(in vitro)
hepatocyte stability assay	BAO_0010100	has endpoint	BAO_0000208	some	BAO_0002768	T1/2(in vitro)
microsomal stability assay	BAO_0010006	has endpoint	BAO_0000208	some	BAO_0002768	T1/2(in vitro)
plasma stability assay	BAO_0010007	has endpoint	BAO_0000208	some	BAO_0002768	T1/2(in vitro)
S9 stability assay	BAO_0010097	has endpoint	BAO_0000208	some	BAO_0002768	T1/2(in vitro)
hepatocyte stability assay	BAO_0010100	has endpoint	BAO_0000208	some	BAO_0000586	vmax
microsomal stability assay	BAO_0010006	has endpoint	BAO_0000208	some	BAO_0000586	vmax

Public Location:

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