Release Notes for BAO version 2.8

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### 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>)
  + 138 ADME ([http://www.bioassayontology.org/bao#BAO\_0000009](http://www.bioassayontology.org/bao%23BAO_0000009))
  + 43 functional (<http://www.bioassayontology.org/bao#BAO_0000010>)
* bioassay format (93) (<https://github.com/BioAssayOntology/BAO/issues/70>)
  + 10 bioassays with more than one assay format
  + 1 biochemical format ([http://www.bioassayontology.org/bao#BAO\_0000217](http://www.bioassayontology.org/bao%23BAO_0000217))
  + 52 cell based format ([http://www.bioassayontology.org/bao#BAO\_0000219](http://www.bioassayontology.org/bao%23BAO_0000219))
  + 3 cytosol format ([http://www.bioassayontology.org/bao#BAO\_0000250](http://www.bioassayontology.org/bao%23BAO_0000250))
  + 33 microsome format (<http://www.bioassayontology.org/bao#BAO_0000251>)
  + 3 plasma format ([http://www.bioassayontology.org/bao#BAO\_0020003](http://www.bioassayontology.org/bao%23BAO_0020003))
  + 1 tissue-based format ([http://www.bioassayontology.org/bao#BAO\_0000221](http://www.bioassayontology.org/bao%23BAO_0000221))
* endpoint (112)
  + 1 blood to plasma ratio ([http://www.bioassayontology.org/bao#BAO\_0080043](http://www.bioassayontology.org/bao%23BAO_0080043))
  + 7 EC50 ([http://www.bioassayontology.org/bao#BAO\_0000188](http://www.bioassayontology.org/bao%23BAO_0000188))
  + 7 ECMax ([http://www.bioassayontology.org/bao#BAO\_0002883](http://www.bioassayontology.org/bao%23BAO_0002883))
  + 7 fold change ([http://www.bioassayontology.org/bao#BAO\_0000193](http://www.bioassayontology.org/bao%23BAO_0000193))
  + 5 fraction unbound ([http://www.bioassayontology.org/bao#BAO\_0080040](http://www.bioassayontology.org/bao%23BAO_0080040))
  + 39 IC50 (<http://www.bioassayontology.org/bao#BAO_0000190>)
  + 17 Ki ([http://www.bioassayontology.org/bao#BAO\_0000192](http://www.bioassayontology.org/bao%23BAO_0000192))
  + 2 Kinactivation ([http://www.bioassayontology.org/bao#BAO\_0001258](http://www.bioassayontology.org/bao%23BAO_0001258))
  + 2 km ([http://www.bioassayontology.org/bao#BAO\_0000477](http://www.bioassayontology.org/bao%23BAO_0000477))
  + 4 percent inhibition ([http://www.bioassayontology.org/bao#BAO\_0000201](http://www.bioassayontology.org/bao%23BAO_0000201))
  + 14 ratio endpoint (<http://www.bioassayontology.org/bao#BAO_0080042>)
  + 5 T1/2(in vitro) ([http://www.bioassayontology.org/bao#BAO\_0002768](http://www.bioassayontology.org/bao%23BAO_0002768))
  + 2 vmax ([http://www.bioassayontology.org/bao#BAO\_0000586](http://www.bioassayontology.org/bao%23BAO_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 assay | BAO\_0010191 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| BCRP inhibition assay | BAO\_0010191 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| BCRP substrate assay | BAO\_0010208 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| BCRP substrate assay | BAO\_0010208 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| biliary excretion 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 assay | BAO\_0010190 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| Caco-2 permeability 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 | BAO\_0010124 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| CYP induction assay | BAO\_0010149 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | 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\_0000009 | ADME |
| CYP inhibition assay | BAO\_0010159 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| CYP mAb inhibition assay | BAO\_0010127 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| CYP metabolite formation kinetics assay | BAO\_0010125 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| CYP reaction phenotyping assay | BAO\_0010123 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| CYP time dependent inhibition IC50 assay | BAO\_0010170 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| CYP time-dependent inhibition assay | BAO\_0010169 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| CYP time dependent inhibition Ki/kinact assay | BAO\_0010171 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| CYP1A2 induction assay | BAO\_0010150 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| CYP1A2 induction assay | BAO\_0010150 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| CYP1A2 inhibition assay | BAO\_0010160 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| CYP2B6 induction assay | BAO\_0010151 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| CYP2B6 induction 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 assay | BAO\_0010152 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| CYP2C19 induction assay | BAO\_0010152 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| CYP2C19 inhibition assay | BAO\_0010162 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| CYP2C8 induction assay | BAO\_0010153 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| CYP2C8 induction assay | BAO\_0010153 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| CYP2C8 inhibition assay | BAO\_0010163 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| CYP2C9 induction assay | BAO\_0010154 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| CYP2C9 induction assay | BAO\_0010154 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| CYP2C9 inhibition assay | BAO\_0010164 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| CYP3A4 induction assay | BAO\_0010155 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| CYP3A4 induction assay | BAO\_0010155 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| CYP3A4 inhibition assay | BAO\_0010165 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| cytosol stability assay | BAO\_0010096 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| definitive CYP IC50 assay | BAO\_0010168 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| CYP cocktail inhibition assay | BAO\_0010166 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| drug absorption assay | BAO\_0010082 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| drug excretion assay | BAO\_0010139 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| drug interaction assay | BAO\_0002188 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| drug metabolism assay | BAO\_0010090 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| efflux transporter inhibition assay | BAO\_0010189 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| efflux transporter inhibition assay | BAO\_0010189 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| efflux transporter substrate assay | BAO\_0010205 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| efflux transporter substrate assay | BAO\_0010205 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| enzymatic stability assay | BAO\_0010113 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| enzyme reaction phenotyping | BAO\_0010114 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| esterase chemical inhibition | BAO\_0010120 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| esterase metabolite formation kinetics | BAO\_0010121 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| Fc/FcRN induction assay | BAO\_0010145 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| FMO reaction phenotyping | BAO\_0010116 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| gastric fluid stability assay | BAO\_0010103 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| hepatocyte co-culture low clearance assay | BAO\_0010102 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| hepatocyte low clearance relay assay | BAO\_0010101 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| hepatocyte relay with inhibitors | BAO\_0010118 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| hepatocyte stability assay | BAO\_0010100 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| hepatocyte uptake assay | BAO\_0010220 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| interstitial fluid stability assay | BAO\_0010109 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| intestinal fluid stability assay | BAO\_0010106 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| LLCPK1 monolayer permeability assay | BAO\_0010088 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| MAO reaction phenotyping | BAO\_0010117 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| mass balance 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\_0000010 | functional |
| MATE2 inhibition 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 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 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 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\_0000010 | functional |
| MDCKII monolayer 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 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 identification and profiling assay | BAO\_0010091 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| microsomal binding assay | BAO\_0010138 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| microsomal stability assay | BAO\_0010006 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| milk excretion assay | BAO\_0010142 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| monoamine oxidase inhibition | BAO\_0010158 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| MRP2 inhibition assay | BAO\_0010192 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| MRP2 inhibition assay | BAO\_0010192 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| MRP2 substrate assay | BAO\_0010207 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| MRP2 substrate assay | BAO\_0010207 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| non-specific protein binding assay | BAO\_0002531 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| OAT1 inhibition assay | BAO\_0010197 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| OAT1 inhibition assay | BAO\_0010197 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| OAT1 substrate assay | BAO\_0010212 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| OAT1 substrate assay | BAO\_0010212 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| OAT2 inhibition assay | BAO\_0010198 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| OAT2 inhibition assay | BAO\_0010198 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| OAT2 substrate assay | BAO\_0010213 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| OAT2 substrate 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 assay | BAO\_0010199 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| OAT3 substrate assay | BAO\_0010214 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| OAT3 substrate assay | BAO\_0010214 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | 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 | BAO\_0010215 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| OATP1B1 substrate assay | BAO\_0010215 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| OATP1B3 inhibition assay | BAO\_0010201 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| OATP1B3 inhibition assay | BAO\_0010201 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| OATP1B3 substrate assay | BAO\_0010216 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| OATP1B3 substrate assay | BAO\_0010216 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| OATP2B1 substrate assay | BAO\_0010219 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| OATP2B1 substrate assay | BAO\_0010219 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | 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 | BAO\_0010217 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| OCT1 substrate assay | BAO\_0010217 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| OCT2 inhibition assay | BAO\_0010203 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| OCT2 inhibition assay | BAO\_0010203 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| OCT2 substrate assay | BAO\_0010218 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| OCT2 substrate assay | BAO\_0010218 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| p-gp induction assay | BAO\_0010187 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| P-gp inhibition 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\_0000010 | 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 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\_0000009 | ADME |
| plated human hepatocytes assay | BAO\_0010222 | has bioassay type | BAO\_0002854 | only | BAO\_0000009 | ADME |
| receptor induction assay | BAO\_0010144 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| recombinant CYP reaction phenotyping | BAO\_0010126 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | 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\_0000010 | 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\_0000009 | ADME |
| simulated gastric fluid stability assay | BAO\_0010104 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | 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 |
| transporter induction assay | BAO\_0010186 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| transporter inhibition assay | BAO\_0010188 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| transporter inhibition assay | BAO\_0010188 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| transporter 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 assay | BAO\_0010176 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| UGT1A4 without BSA assay | BAO\_0010177 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| UGT1A6 with BSA assay | BAO\_0010178 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| UGT1A6 without BSA assay | BAO\_0010179 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| UGT1A9 with BSA assay | BAO\_0010180 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| UGT1A9 without 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 BSA assay | BAO\_0010185 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| uptake transporter 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 substrate assay | BAO\_0010211 | has bioassay type | BAO\_0002854 | some | BAO\_0000009 | ADME |
| uptake transporter substrate assay | BAO\_0010211 | has bioassay type | BAO\_0002854 | some | BAO\_0000010 | functional |
| Ussing chamber 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 dependent inhibition IC50 assay | BAO\_0010170 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| CYP time dependent inhibition Ki/kinact assay | BAO\_0010171 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| CYP time-dependent inhibition assay | BAO\_0010169 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| CYP1A2 induction assay | BAO\_0010150 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| CYP1A2 inhibition assay | BAO\_0010160 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| CYP2B6 induction assay | BAO\_0010151 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| CYP2B6 inhibition assay | BAO\_0010161 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| CYP2C19 induction assay | BAO\_0010152 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| CYP2C19 inhibition assay | BAO\_0010162 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| CYP2C8 induction assay | BAO\_0010153 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| CYP2C8 inhibition assay | BAO\_0010163 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| CYP2C9 induction assay | BAO\_0010154 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| CYP2C9 inhibition assay | BAO\_0010164 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| CYP3A4 induction assay | BAO\_0010155 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| CYP3A4 inhibition assay | BAO\_0010165 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| cytosol stability assay | BAO\_0010096 | has assay format | BAO\_0000205 | only | BAO\_0000250 | cytosol format |
| definitive CYP IC50 assay | BAO\_0010168 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| CYP cocktail inhibition assay | BAO\_0010166 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| efflux transporter inhibition assay | BAO\_0010189 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| efflux transporter substrate assay | BAO\_0010205 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| hepatocyte relay with inhibitors | BAO\_0010118 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| hepatocyte stability assay | BAO\_0010100 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| LLCPK1 monolayer permeability assay | BAO\_0010088 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| MAO reaction phenotyping | BAO\_0010117 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| MAO reaction phenotyping | BAO\_0010117 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| MAO reaction phenotyping | BAO\_0010117 | has assay format | BAO\_0000205 | some | BAO\_0000250 | cytosol format |
| MATE1 inhibition assay | BAO\_0010194 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| MATE1 substrate assay | BAO\_0010209 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| MATE2 inhibition assay | BAO\_0010195 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| MATE2 substrate assay | BAO\_0010210 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| MDCK permeability assay | BAO\_0010086 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| 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 assay | BAO\_0010138 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| microsomal stability assay | BAO\_0010006 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| monoamine oxidase inhibition | BAO\_0010158 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| MRP2 inhibition assay | BAO\_0010192 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| MRP2 substrate assay | BAO\_0010207 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| non-specific 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 inhibition assay | BAO\_0010200 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| OATP1B1 substrate assay | BAO\_0010215 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| OATP1B3 inhibition assay | BAO\_0010201 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| OATP1B3 substrate assay | BAO\_0010216 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| OATP2B1 substrate assay | BAO\_0010219 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| OCT1 inhibition assay | BAO\_0010202 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| OCT1 substrate assay | BAO\_0010217 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| OCT2 inhibition assay | BAO\_0010203 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| OCT2 substrate assay | BAO\_0010218 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| P-gp inhibition assay | BAO\_0010193 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| P-gp substrate 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 phenotyping | BAO\_0010131 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| RRCK permeability assay | BAO\_0010087 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| tissue binding assay | BAO\_0010133 | has assay format | BAO\_0000205 | some | BAO\_0000221 | tissue-based format |
| tissue binding assay | BAO\_0010133 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| transporter inhibition assay | BAO\_0010188 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| transporter substrate assay | BAO\_0010204 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| UGT chemical inhibition assay | BAO\_0010129 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| UGT inhibition assay | BAO\_0010173 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| UGT1A1 with BSA assay | BAO\_0010174 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| UGT1A1 without BSA assay | BAO\_0010175 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| UGT1A4 with BSA assay | BAO\_0010176 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| UGT1A4 without BSA assay | BAO\_0010177 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| UGT1A6 with BSA assay | BAO\_0010178 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| UGT1A6 without BSA assay | BAO\_0010179 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| UGT1A9 with BSA assay | BAO\_0010180 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| UGT1A9 without BSA assay | BAO\_0010181 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| UGT2B15 with BSA assay | BAO\_0010182 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| UGT2B15 without BSA assay | BAO\_0010183 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| UGT2B7 with BSA assay | BAO\_0010184 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| UGT2B7 without BSA assay | BAO\_0010185 | has assay format | BAO\_0000205 | some | BAO\_0000251 | microsome format |
| uptake transporter inhibition assay | BAO\_0010196 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |
| uptake transporter substrate assay | BAO\_0010211 | has assay format | BAO\_0000205 | some | BAO\_0000219 | cell based format |

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 ratio assay | BAO\_0010132 | has endpoint | BAO\_0000208 | only | BAO\_0080043 | blood to plasma ratio |
| CYP induction assay | BAO\_0010149 | has endpoint | BAO\_0000208 | some | BAO\_0000188 | EC50 |
| CYP1A2 induction assay | BAO\_0010150 | has endpoint | BAO\_0000208 | some | BAO\_0000188 | EC50 |
| CYP2B6 induction 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 assay | BAO\_0010149 | has endpoint | BAO\_0000208 | some | BAO\_0002883 | ECMax |
| CYP1A2 induction assay | BAO\_0010150 | has endpoint | BAO\_0000208 | some | BAO\_0002883 | ECMax |
| CYP2B6 induction assay | BAO\_0010151 | has endpoint | BAO\_0000208 | some | BAO\_0002883 | ECMax |
| CYP2C19 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 assay | BAO\_0010149 | has endpoint | BAO\_0000208 | some | BAO\_0000193 | fold change |
| CYP1A2 induction 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 assay | BAO\_0010138 | has endpoint | BAO\_0000208 | some | BAO\_0080040 | fraction unbound |
| non-specific protein binding assay | BAO\_0002531 | has endpoint | BAO\_0000208 | some | BAO\_0080040 | fraction unbound |
| plasma protein binding assay | BAO\_0010135 | has endpoint | BAO\_0000208 | some | BAO\_0080040 | fraction unbound |
| tissue binding assay | BAO\_0010133 | has endpoint | BAO\_0000208 | some | BAO\_0080040 | fraction unbound |
| BCRP inhibition assay | 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 | BAO\_0010170 | has endpoint | BAO\_0000208 | some | BAO\_0000190 | IC50 |
| CYP time-dependent inhibition 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 inhibition 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 IC50 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 assay | BAO\_0010192 | has endpoint | BAO\_0000208 | some | BAO\_0000190 | IC50 |
| OAT1 inhibition assay | BAO\_0010197 | has endpoint | BAO\_0000208 | some | BAO\_0000190 | IC50 |
| OAT2 inhibition assay | BAO\_0010198 | has endpoint | BAO\_0000208 | some | BAO\_0000190 | IC50 |
| OAT3 inhibition assay | BAO\_0010199 | has endpoint | BAO\_0000208 | some | BAO\_0000190 | IC50 |
| OATP1B1 inhibition assay | BAO\_0010200 | has endpoint | BAO\_0000208 | some | BAO\_0000190 | IC50 |
| OATP1B3 inhibition assay | BAO\_0010201 | has endpoint | BAO\_0000208 | some | BAO\_0000190 | IC50 |
| OCT1 inhibition 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 | BAO\_0010193 | has endpoint | BAO\_0000208 | some | BAO\_0000190 | IC50 |
| transporter inhibition assay | BAO\_0010188 | has endpoint | BAO\_0000208 | some | BAO\_0000190 | IC50 |
| UGT inhibition 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 assay | BAO\_0010176 | has endpoint | BAO\_0000208 | some | BAO\_0000190 | IC50 |
| UGT1A4 without 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 | BAO\_0010180 | has endpoint | BAO\_0000208 | some | BAO\_0000190 | IC50 |
| UGT1A9 without BSA assay | BAO\_0010181 | has endpoint | BAO\_0000208 | some | BAO\_0000190 | IC50 |
| UGT2B15 with 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 assay | BAO\_0010184 | has endpoint | BAO\_0000208 | some | BAO\_0000190 | IC50 |
| UGT2B7 without BSA assay | BAO\_0010185 | has endpoint | BAO\_0000208 | some | BAO\_0000190 | IC50 |
| BCRP inhibition 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 | BAO\_0010171 | has endpoint | BAO\_0000208 | some | BAO\_0000192 | Ki |
| CYP time-dependent inhibition assay | BAO\_0010169 | has endpoint | BAO\_0000208 | some | BAO\_0000192 | Ki |
| MATE1 inhibition assay | BAO\_0010194 | has endpoint | BAO\_0000208 | some | BAO\_0000192 | Ki |
| MATE2 inhibition 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 assay | BAO\_0010198 | has endpoint | BAO\_0000208 | some | BAO\_0000192 | Ki |
| OAT3 inhibition assay | BAO\_0010199 | has endpoint | BAO\_0000208 | some | BAO\_0000192 | Ki |
| OATP1B1 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 | BAO\_0010202 | has endpoint | BAO\_0000208 | some | BAO\_0000192 | Ki |
| OCT2 inhibition assay | BAO\_0010203 | has endpoint | BAO\_0000208 | some | BAO\_0000192 | Ki |
| P-gp inhibition 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 dependent inhibition Ki/kinact assay | BAO\_0010171 | has endpoint | BAO\_0000208 | some | BAO\_0001258 | Kinactivation |
| CYP time-dependent inhibition assay | BAO\_0010169 | has endpoint | BAO\_0000208 | some | BAO\_0001258 | Kinactivation |
| hepatocyte stability 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 inhibition assay | BAO\_0010124 | has endpoint | BAO\_0000208 | only | BAO\_0000201 | percent inhibition |
| CYP metabolite 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 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 assay | BAO\_0010210 | has endpoint | BAO\_0000208 | some | BAO\_0080042 | ratio endpoint |
| MRP2 substrate 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 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:

[http://www.bioassayontology.org/bao](http://www.bioassayontology.org/bao/bao_complete.owl)

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