**Table S3.** Summary of evaluation methods for transporter activities.

| | | | Vendor A | | Vendor B | | Vendor C | Vendor D |
|---|---|---|---|---|---|---|---|---|
| Plated | | | | | | | | |
| Plate | Type | | Celltight C-1 | | NA | | ND | ND |
| | Size | | 48 well | | NA | | | |
| | Vendor | | Sumitomo Bakelite | | NA | | | |
| | Coating | | Collagen 1 | | NA | | | |
| Culture | Medium | | Modified lanford medium for 6 hr, and then MCM for 5 hr | | NA | | | |
| | Preculture time | | NA | | 48 or 120 hr | | | |
| Assay | Medium | | Modified Chee's Medium | | CHRM (Cryopreserved Hepatocytes Recovery Medium) | | | |
| | Cell density | | 0.063-0.079 x$10^6$ cells/well | | NA | | | |
| | Substrate | Transporter | Conc (μM) | Time (min) | Conc (μM) | Time (min) | | |
| | Taurocholate | NTCP | 0.1 | 1 | 1 | 10 | | |
| | Estrone-3-sulfate | OATP1B1 | 0.1 | 1 | ND | ND | | |
| | CCK8 | OATP1B3 | 0.1 | 1 | ND | ND | | |
| | E2-17G | OATP1B, OATP1B3 | ND | ND | 1 | 10 | | |
| | $MPP^+$ | OCTs | 0.1 | 1 | 1 | 5 | | |

CCK8, Cholecystokinin octapeptide; E2-17G, Estradiol 17 β-(D)-glucuronide.

**Table S3.** (continued).

| | | | Vendor A | | Vendor B | | Vendor C | | Vendor D | |
|---|---|---|---|---|---|---|---|---|---|---|
| Suspension | | | | | | | | | | |
| Culture | Preculture time | | NA | | Transporter assay was performed on Day 2 or 5 | | Equilibrated at 4 and 37C for 15 min prior to starting reaction | | NA | |
| Assay | Medium | | KHB (Krebs Henseleit Buffer) | | CHRM (Cryopreserved Hepatocytes Recovery Medium) | | KHB (Krebs Henseleit Buffer) | | HBSS (Hanks' balanced saline solution) with 10mM HEPES | |
| | Cell density | | 1 x $10^6$ cells/mL | | NA | | 2 x $10^6$ cells/mL | | NA | |
| | Substrate | Transporter | Conc (μM) | Time (min) | Conc (μM) | Time (min) | Conc (μM) | Time (min) | Conc (μM) | Time (min) |
| | Taurocholic acid | NTCP | 1 | 1 | 1 | 1 | 1 | 3 | 25 | 3 |
| | Estrone sulfate | OATP1B1 | 1 | 1 | ND | ND | 2 | 3 | ND | ND |
| | CCK8 | OATP1B3 | 1 | 1 | ND | ND | 1 | 3 | ND | ND |
| | E2-17G | OATP1B, OATP1B3 | ND | ND | 1 | 1 | ND | ND | 25 | 3 |
| | $MPP^+$ | OCTs | 1 | 1 | 1 | 5 | 1 | 3 | 250 | 3 |

CCK8, Cholecystokinin octapeptide; E2-17G, Estradiol 17 β-(D)-glucuronide.