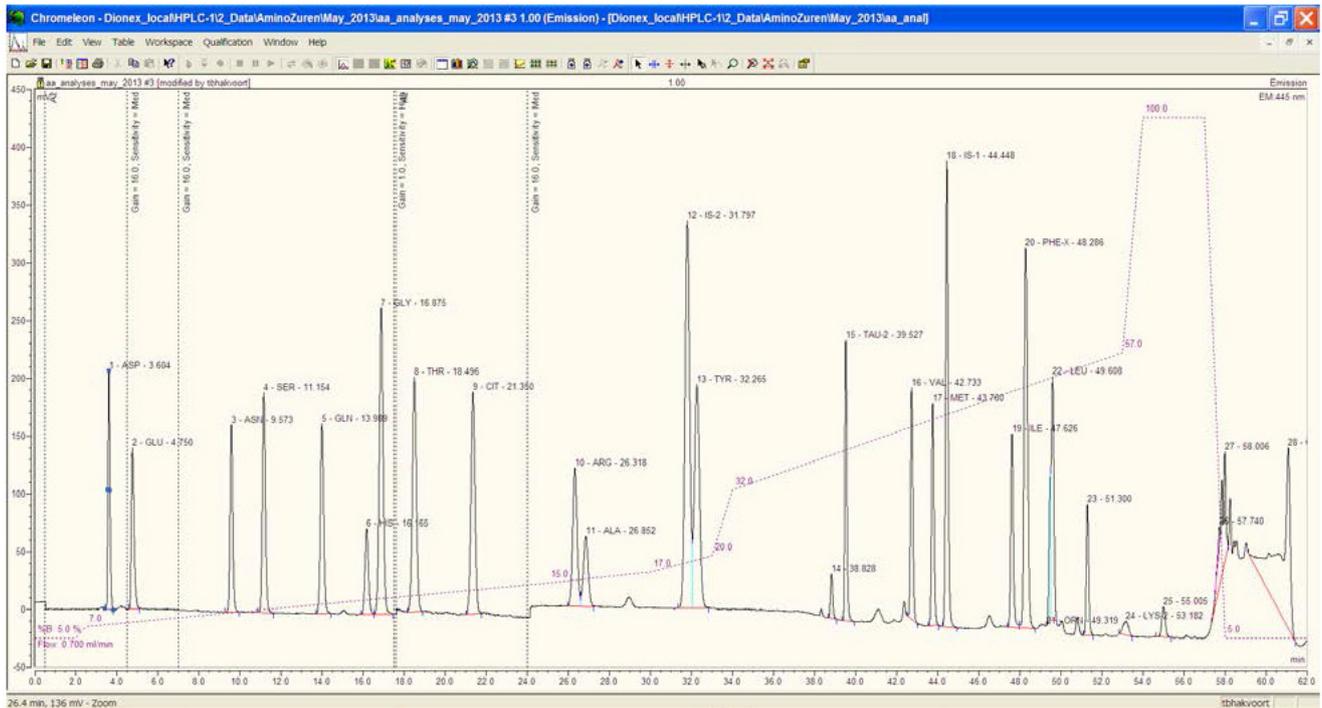


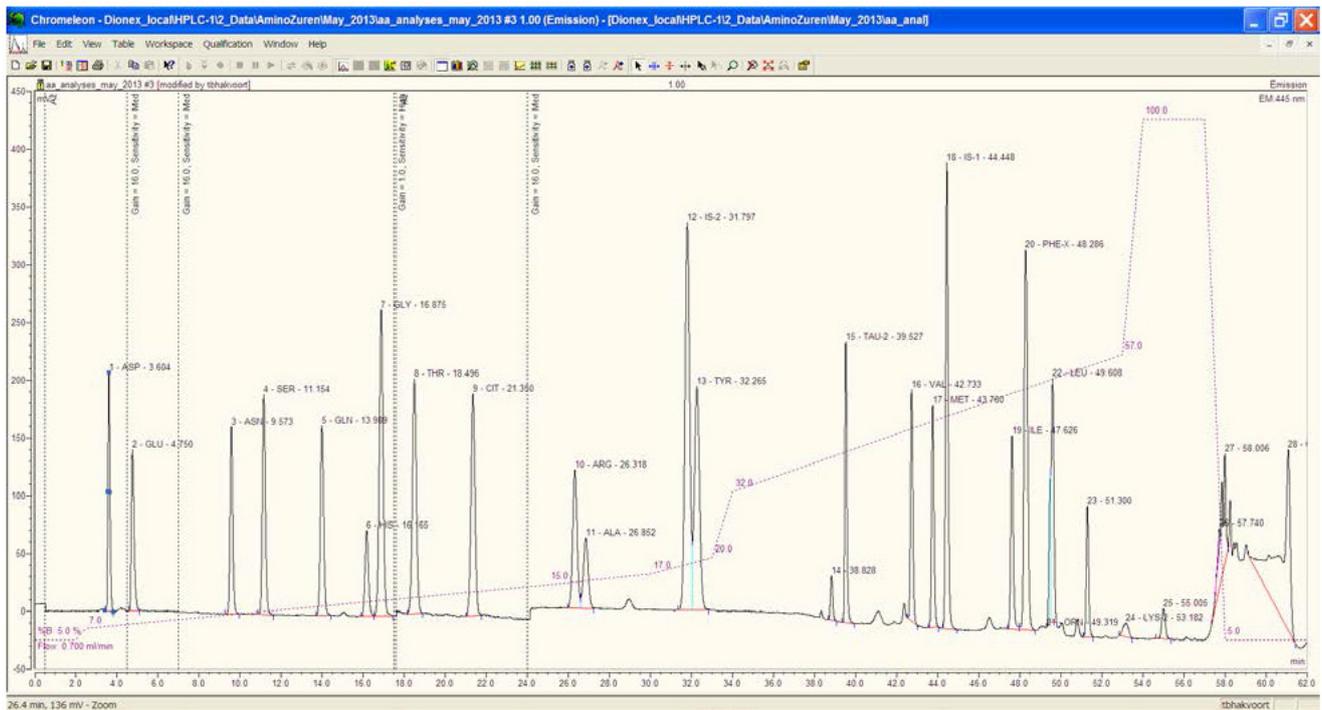
Figure S1. Amino acid HPLC chromatogram.

HPLC amino acid chromatogram, showing typical separation of 1.0 uM amino acid calibration solution (A) and typical separation of a deproteinized medium sample (B).

A



B



Supplemental Table S1. Primer sequences

Gene	Sense primer	RT- and antisense primer	Amplicon size (bp)	Template dilution
<i>18S rRNA</i>	TTCGGAAGCTGAGGCCATGAT	CGAACCTCCGACTTTCGTTCT	151	1000x
<i>AFP</i>	TKCCAACAGGAGGCTATGC	CCCAAAGCAKACGAGTTTT	306	-
<i>ALB</i>	TGAGCAGCTTGGAGAGTACA	GTTCCAGGACCACGGATAGAT	189	-
<i>ARG1</i>	TTGGCAAGGTGATGGAAGAAACA	CCTCCCAGCAAGTCCGAAACAA	305	-
<i>ARG2</i>	GGTCCCCTGCCATAAGAGA	GGCATCAACCCAGACAACACAA	299	-
<i>CEBPA</i>	GTGCGTCTAAGATGAGGGGG	GGAAGGAGGCAGGAAACCTC	203	-
<i>CAR</i>	CGTCATGGCCAGTAGGGAAG	CATGCCAGCATCTAAGCACT	232	-
<i>CPS1</i>	GAAGGGGCCCCGAGAAGTAGAA	CTCAACCGGGGCCAGGAAAAC	445	-
<i>CYP2B6</i>	CCCGCCCTCTGCCCTTTTG	TCCACACTCCGCTTCCCATCC	328	-
<i>CYP3A4</i>	AGCTTAGGAGGACTTCTTCAACC	AGCCAAATCTACCTCCTCACACT	313	-
<i>CYP3A7</i>	ATTACGCTTTGGAGGACTTCTTCT	CGTCTTCATTTAGGGTTCTATTT	182	-
<i>FVII</i>	ACGGGCACCAAGCGCTCCTGTCG	CACCCGCCGGCTCTGCTCATCC	359	-
<i>GLS</i>	GTCTGGAGGAAAGGTTGCAG	TCTTAGTCCACTCGGCTCTT	229	-
<i>GLS2</i>	CTGTGTTCTGTGGAGGCTACT	TCACGCCGTGGGTCTAACT	386	-
<i>GS</i>	GCCTGCTTGATGCTGGAGTC	GGCGCTACGATTGGCTACAC	420	-
<i>HNF4A</i>	CCGGGTGTCCATACGCATCCT	CAGGTTGTCAATCTTGCC	321	-
<i>NTCP</i>	GGCTTTCTGCTGGGTTATGTT	GGGGAAAGAAGAAAAGTGGTC	162	-
<i>OATP1B1</i>	GCCGGACTAACCATGACCTAT	GCTGAGTAATTTCTGTTCTGG	250	-
<i>OTC</i>	GCCGGATGCTAGTGTAACCAA	AGCCGCTTTTTCTTCTCCTCTTC	161	-
<i>PXR</i>	GAGAGCGGCATGAAGAAGGAGA	CATGTGGGGCAGCAGGGAGAAG	420	-
<i>TF</i>	GAAGGACCTGCTGTTTAAGG	CTCCATCCAAGCTCATGGC	310	-

Primer sequences used in the RT-PCR analyses with resulting amplicon sizes. Primers are indicated from 5' → 3'. bp, base pairs; *rRNA*, ribosomal RNA; *AFP*, Alpha fetoprotein; *ALB*, Albumin; *ARG1*, arginase 1; *ARG2*, arginase 2; *CEBPA*, enhancer-binding protein alpha; *CAR*, constitutive androstane receptor; *CPS1*, carbamoyl phosphate synthetase; *CYP2B6*, cytochrome p450 2B6; *CYP3A4*, cytochrome p450 3A4; *CYP3A7*, cytochrome p450 3A7; *FVII*, factor seven; *GLS*, glutaminase; *GLS2*, glutaminase 2; *GS*, glutamine synthetase; *HNF4A*, hepatic nuclear factor alpha; *NTCP*, sodium taurine co-transporting peptide; *SLCO1B1*, Solute carrier organic anion transporter family member 1B1; *OTC*, ornithine transcarbamylase; *PXR*, pregnane x receptor; *TF*, transferrin.