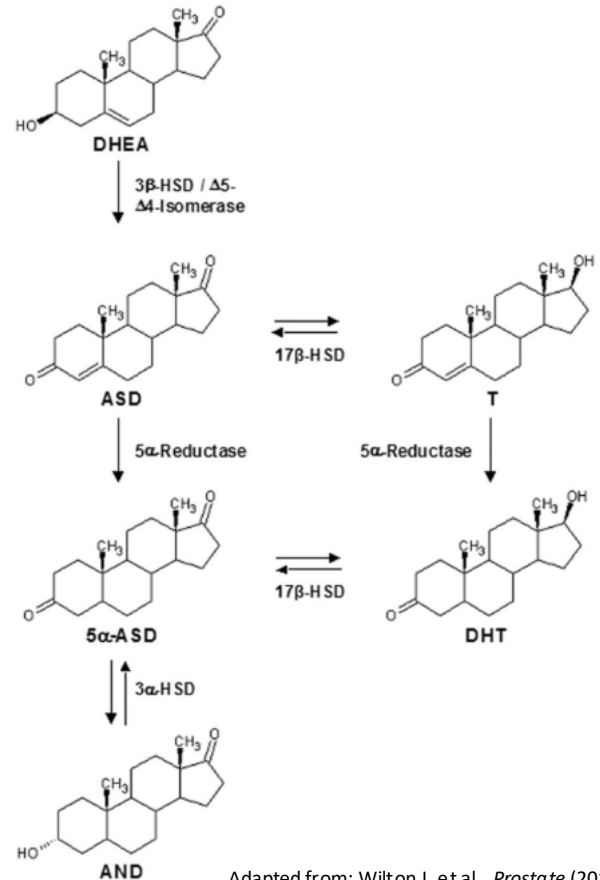


Bioanalytics, Metabolomics and Pharmacokinetics Shared Resource (BMPK)

Androgens in Human Serum

BMPK has validated a highly sensitive liquid chromatographic tandem mass spectral assay (LC-MS/MS) for the analysis of five androgens including dehydroepiandrosterone (DHEA), androstenedione (ASD), testosterone (T), dihydrotestosterone (DHT) and androsterone (AND).

The assay was used to support a Roswell Park clinical trial entitled “A Pilot Study of the Flaxseed Effects on Hormones and Lignans: Role of Race, Genes, and Gut Microbiome” where 855 serum samples from healthy post-menopausal women were analyzed, in addition to many other studies at Roswell Park and other institutes. The assay has also been used to analyze: (1) heparinized human plasma and human prostate, (2) mouse serum, tumor, and prostate, and (3) cell pellet and media samples.



Adapted from: Wilt on J, et al., *Prostate* (2014)

Assay Specifications

Matrix:	Human Serum
Required Volume:	250 μL
Preparation Procedure:	Liquid-Liquid Extraction
HPLC Column:	C18
Mobile Phase:	Methanol with ammonium formate
Flow Rate:	175 μL/min
Detection Type:	Tandem Mass Spectral (MS/MS)
Calibration Range:	ASD and T: 0.00625 to 3.75 ng/mL DHT: 0.0125 to 7.50 ng/mL DHEA and AND: 0.200 to 7.50 ng/mL

BMPK offers a wide range of bioanalytical and PK/PD modeling services to assist investigators in their basic research, preclinical, and clinical study objectives.

For information on services and pricing, contact [Joshua Prey, MS](mailto:Joshua.Prey@RoswellPark.org), Research Project Administrator, at (716) 845-3313 or Joshua.Prey@RoswellPark.org.

