# University of Arizona Cancer Center Analytical Chemistry Shared Resource Service Request Form

**NOTE**: Any publication resulting from the services provided by the Cancer Center's Analytical Core should cite the support by the grant (5 P30 CA23074).

**Contact:**

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Date:_____ **Request ID: _____(to be completed by the core)**
Investigator: _____ Department: _____
Cancer Center Member Yes ____ No _____
Contact Person: _____
Phone: _____ Fax: _____ e-mail: _____
Grant Number or Project Title: _____
_____
Funding Agency: _____
Account #: _____ Account Manager: _____
Infectious Agents? (yes/no) _____ If yes, list agents: _____ BSL 2 3
Drug/Chemical Name:

Drug/Chemical Information (mol. weight, solubility, stability, pKa, concentration, if known):

Chemical Structure, if known:

Sample Type: Number of Samples:

Service Required:

- ☐ Qualitative Analysis/Confirmation
- ☐ Assay Development/Implementation for Quantitative Analysis
- ☐ Quantitative Analysis with Established Procedures
- ☐ Others (Specify: _____ )

Project Summary:

# Services Provided by Analytical Chemistry Shared Resource and Associated User Fees

| | Internal Fee | External Fee |
|---|---|---|
| Assay Setup for Quantitative Analysis of Drugs/Biochemicals for an In-house Assay | No Charge | • 120% internal fee (+ UA fee) for academic researchers<br>• 200% internal fee (+ UA fee) for industry users |
| Assay Development and Validation for Quantitative Analysis of Drugs/Biochemicals | $1,000 per assay depending on the availability of published information and the extent of assay validation | |
| Qualitative Mass Spec | $20 - $30 per sample depending on the instrument used | |
| Quantitative Analysis of the Levels of Drugs/Biochemicals | $20 - $55 per sample depending on the instrument used and sample processing requirements | |
| PK Consultation | No Charge | |
| Pharmacokinetic and pharmacodynamic data analysis | No Charge | |

**Full Validation according to the FDA's guideline for bioanalytical method validation** (http:///www.fda.gov/cder/guidance/index.htm)
**Selectivity –** analyses of blank samples of appropriate biological matrix should be obtained from at least six sources.
**Accuracy and Precision –** accuracy and precision measured using a minimum of five determinations per concentration and a minimum of three concentrations in the range of expected concentrations.
**Recovery –** recovery determined at three concentrations.
**Calibration Curve -** a calibration curve should consist of a blank, a zero sample, and six to eight non-zero samples covering the expected range, including the lower limit of quantification.
**Stability –** Stability of the analytes should be evaluated during sample collection and handling, after long-term and short-term storage, and after going through freeze and thaw cycles and the analytical process.