



## Analytical Services Sample Submission Form

*Sample submission details may be provided electronically, but otherwise please complete this form and return to your Sirius representative or e-mail to [AnalyticalService@sirius-analytical.com](mailto:AnalyticalService@sirius-analytical.com)*

Page 1	Specify the customer details (required)
Page 2	Detail your Gold Standard assay requests (please provide as much information as you can)
Page 3	Detail your Screening assay requests
Page 4	Provide details of samples for Gold Standard analyses
Page 5	FAQs - sample requirements, delivery address, contact number, turnaround times and more. <i>Please read before placing this order.</i>

### Customer/Order Details

<b>Company</b>	
<b>Contact name</b>	
<b>Address</b>	
<b>Telephone number</b>	
<b>e-mail address</b>	
<b>Purchase order number*</b>	
<b>Sirius quotation number (if applicable)</b>	
<b>SIR numbers (office use only)</b>	

\*Please note that analysis reports will not be issued without a valid purchase order number

### Other information

<p><b>Safety information</b> Please highlight any specific safety/handling issues to these samples.</p> <p>Please also attach an MSDS.</p>	
<p><b>Please detail any specific experimental details (e.g. pH values for solubility or dissolution experiments)</b></p> <p><b>Are there known impurity/decomposition issues for any of the samples?</b></p>	
<p><i>Please note that any sample remaining after analysis will be destroyed unless Sirius are asked to return the remaining sample. Courier charges are additional to the analysis cost and will be included in the customer invoice on completion.</i></p>	

## Analysis Requests – Gold Standard Analyses

Please check the required analyses in the table below.

Sample Information				Gold Standard Assays <sup>1</sup>							
No.	Sample reference	MW <sup>2</sup>	Empirical Formula	pK <sub>a</sub>	LogP <sup>3</sup>	Solubility (Cheqsol)	Solubility (shake-flask <sup>4</sup> )	Dissolution <sup>4</sup>	Solid State <sup>4</sup>	Particle Size <sup>4</sup>	Custom/other <sup>4</sup>
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											

1. Additional sample information is requested to assist in optimising the sample analysis. Please complete the details on Page 4 for each sample submitted.
2. The molecular weight must be provided in all cases.
3. The LogP assay requires that a pK<sub>a</sub> assay is completed first.
4. Please discuss your assay requirements with Sirius.

## Analysis Request – Screening samples

Please check the required analyses in the table below.

Sample Information				Screening assays			
No.	Sample reference	MW <sup>1</sup>	Empirical Formula	pK <sub>a</sub>	LogD <sup>2</sup>	Solubility (HPLC) <sup>3</sup>	Surface tension <sup>3</sup>
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

1. The molecular weight must be provided in all cases.
2. Specify pH for measurement. Available pH values for Log D determination are pH 7.4 and 2.5.
3. Please discuss your assay requirements with Sirius.

*Please note that the minimum batch size for screening assays is 5 samples*

## Sample Specific Information

Please make additional copies of this page if necessary

<b>Table No.</b>	
<b>Sample reference</b>	
<b>Molecular weight*</b>	
<b>Salt type</b>	
<b>Predicted pK<sub>a</sub>(s)</b>	
<b>Predicted LogP</b>	
<b>Predicted solubility</b>	
<b>Structure</b>	

<b>Table No.</b>	
<b>Sample reference</b>	
<b>Molecular weight*</b>	
<b>Salt type</b>	
<b>Predicted pK<sub>a</sub>(s)</b>	
<b>Predicted LogP</b>	
<b>Predicted solubility</b>	
<b>Structure</b>	

<b>Table No.</b>	
<b>Sample reference</b>	
<b>Molecular weight*</b>	
<b>Salt type</b>	
<b>Predicted pK<sub>a</sub>(s)</b>	
<b>Predicted LogP</b>	
<b>Predicted solubility</b>	
<b>Structure</b>	

<b>Table No.</b>	
<b>Sample reference</b>	
<b>Molecular weight*</b>	
<b>Salt type</b>	
<b>Predicted pK<sub>a</sub>(s)</b>	
<b>Predicted LogP</b>	
<b>Predicted solubility</b>	
<b>Structure</b>	

\*Please provide the molecular weight of the salt, hydrate or solvate where applicable.

## Frequently Asked Questions

### How much sample should I send for analysis?

The following table is a general guide for the assays provided by Sirius; these are approximate values so please be aware that some samples may require different quantities. If you submit your sample for several assays then the sample requirement is the sum of each individual assay requirement. Sometimes smaller sample quantities can be accommodated, so please contact Sirius Analytical if you have restricted sample quantities.

Assay	Amount	Assay	Amount
Screening pK <sub>a</sub>	50-100 uL 10mM stock	XRPD	100mg
Screening LogD	200 uL 10mM stock	DSC	5mg
Screening solubility	Please consult Sirius	TGA	5mg
Gold Standard pK <sub>a</sub>	5mg	Particle size	100mg+
Gold Standard LogP	5mg		
Gold Standard solubility	20-50mg		
Dissolution	50mg		

### I don't have any predicted physicochemical properties for my compounds. Does it matter?

We can analyse your compounds without predicted properties, but it is very helpful to us in designing our experiments. The more information you can share with us, the better.

### I'm not able to share the chemical structures of my samples. Is this a problem?

We understand that some companies prefer not to share chemical structures. We will be able to analyse your samples but knowledge of the chemical structure will help in optimal assay design. If you are unable to share the complete molecular structure, a partial structure or list of expected ionisable groups is of assistance to us.

### How long will the analyses take?

Our standard turnaround time is 10 working days although shorter analysis times can be accommodated by agreement prior to analysis. Custom designed assays and studies may take longer and will also be agreed prior to analysis.

### A few words on Safety

It is very important that you tell us about any specific hazards associated with your samples. Please therefore complete the safety information box on Page 1 and send your samples with a suitable MSDS. Please ensure that your samples are securely packaged.

### Where should I send my samples?

Sirius Analytical Inc.  
Cummings Centre  
100 Cummings Center, Suite 231c  
Beverly, MA 01915  
USA

Please mark for the attention of *Analytical Services*

If you are sending samples from outside of the EU, please declare your samples as having "no commercial value". This will avoid unnecessary import taxes. All shipping and import costs must be covered by the customer.

### How will I know when my samples have arrived?

Upon receipt of your samples, we will send you an e-mail to confirm safe delivery.

### Who should I contact if I have any questions?

Please contact the Analytical Services manager on +44 (0)1342 820720.

### Liability

Whilst Sirius Analytical takes great care to deliver results of the highest quality, it is a condition of this work order that the total liability of Sirius Analytical Ltd. is limited to the value of this order.

***Thank you for using Sirius Analytical Services***