

# XRD Service Rate (UNSW Commercial)

(May - 2024)

Never Stand Still

Mark Wainwright Analytical Centre

Solid State and Elemental Analysis Unit

Item	XRD Consulting Services	Rate (\$/sample)	Additional cost	Notes
1	General Phase Identification (Phase numbers are less than 6)	\$175		Sample quantity 1-5 grams.
2	General Phase Identification (Phase numbers are less than 6)	\$200		sample quantity < 0.5 gram
3	Clay and Rocks Phase Identification	\$210	\$30/sample (if crushing required)	Elemental analysis result is prerequisite.
4	Quantitative analysis (Rietveld refinement)	\$340	\$70/hour if sample preparation required	Elemental analysis result is pre-requisite; sample quantity >10 grams. In case of multi-test on the same sample, client can get 15 - 50% discount for the additional tests.
5	Quantitative analysis with amorphous content estimation	\$520	\$30/sample (if crushing required)	Elemental analysis result is pre-requisite; sample quantity >10 grams.
6	Pharmaceutical Analysis ( test as per USP, BP, etc.)	\$400		Maximum of 2 scans per sample. Pre-consultation with laboratory staff is required.
7	Pharmaceutical/Nutraceutical Studies (viz. polymorphism, solid state process monitoring etc.)	\$400		Pre-consultation with laboratory staff is required.
8	Cement composition analysis (clinker, sulphate, limestone, FA/slag, other minerals etc.)	\$850		Max 3 scans per sample analysis. Pre-consultation with laboratory staff is required.

**Note:** 1. Samples have to be grounded to fine powders, Quantity of samples should be > 10 grams; Additional cost may be applied for sample preparation and scanning that will require long hours (more than 2hrs.).

2. Qualitative analysis (Phase ID): ~ 0.5wt%.

3. Phase identification bases on ICDD database (the database is updated annually). Semi-quantitative analysis is free of charge if RIR value is available in the database, Accuracy of results cannot be guaranteed for semi-quantitative analysis.

4. For XRF elemental analysis, please contact XRF Laboratory within MWAC.

5. Quantitative analysis accuracy ~< 4wt% for major phases (Rietveld refinement);

6. Turnaround time: Phase ID 5 working days; Quantitative analysis 10 working days; Client will be informed in advance when the Lab is too busy to meet the deadline.

7. Samples will be discarded; Please notify laboratory staff if sample should be returned.

8. Please contact staff in case client has any special requirement.

**Contact:**

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