

## Thin Film XRD Analysis Request Form

X-ray Diffraction Laboratory  
Department of Chemistry  
National University of Singapore

Services provided are purely for scientific purposes and are not to be used in any court of law

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Name of the Student: \_\_\_\_\_ Phone: \_\_\_\_\_ (Lab) \_\_\_\_\_ (HP)E-mail: \_\_\_\_\_

Name of the Supervisor: Prof/Dr. \_\_\_\_\_ Signature: \_\_\_\_\_

Name of Department/ Company: \_\_\_\_\_ Date: \_\_\_\_\_

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### I) Sample information:

1. Sample ID: \_\_\_\_\_

2. Known/Suspect chemical properties:-

- Explosive under shock/heat/pressure/contact with metals/others (specify) \_\_\_\_\_
- Carcinogenic  Toxic  Corrosive  Flammable  Teratogenic  Mutagenic  Harmful if inhaled
- Irritation to skin, eye, mucous membranes and/or upper respiratory tract
- Others, specify \_\_\_\_\_
- None of the above: \_\_\_\_\_

3. Sample Components:

1<sup>st</sup> layer compound: \_\_\_\_\_ Thickness: \_\_\_\_\_

2<sup>nd</sup> layer: compound: \_\_\_\_\_ Thickness: \_\_\_\_\_

Substrate: compound: \_\_\_\_\_

### II) Measuring Parameters:

1.  $\theta$  Angle : \_\_\_\_\_<sup>o</sup>
  2.  $2\theta$  ranges: From \_\_\_\_\_<sup>o</sup> to \_\_\_\_\_<sup>o</sup>
  3. Step Size: \_\_\_\_\_
  4. Time per Step: \_\_\_\_\_
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### For X-ray Diffraction Lab:

Date of analysis: \_\_\_\_\_

Name of analyst: \_\_\_\_\_

Total Machine Time: \_\_\_\_\_