

## Sample Results Summary Sheet

Please return this form to the Curator for each allocated Sample

**Sample ID:** RA-QD02-0023

**PI:** N. Kita and D. Nakashima

**Type and date of analysis performed:**

Examination of surface profile before ion microprobe analyses, Jul 11, Aug 23, 2012

Ion microprobe analyses of oxygen isotopes, Sep 3 - Sep 7, 2012

SEM observation to inspect Ion microprobe pits, Sep 13, 2012

Examination of surface profile after ion microprobe analyses, Sep 11, Sep 17, 2012

**Elements or phases identified:** (Mg, Si, olivine, pyroxene, aromatic carbon, etc.)

Oxygen isotopes

**Contaminant phases identified:** (Al, SUS, carbon particles, etc.)

None

**Sample handling:** (e.g. exposed in atmosphere, embedded in resin, polished, sliced by FIB or UMT)

Exposed in atmosphere, Embedded epoxy disks in Indium by pressing surface with flat silica glasses, Coated with gold ~ 30nm, Removed epoxy disks from Indium, Polished using 0.25- $\mu$ m diamond suspension, Washed with distilled water and ethanol, Coated with carbon ~ 20nm

**State of sample pre-analysis:** (e.g. N<sub>2</sub> hold, atmosphere, resin embedded, polished section, UTS) (please describe treatments and/or modifications for the sample you have done before your analysis)

Exposed in atmosphere, Embedded in Indium, Coated with gold ~ 30nm,  
Kept in a vacuum desiccator

**State of sample post-analysis:**

(N<sub>2</sub> hold in sample holder, atmosphere, resin embedded, polished section, UTS)

(partially damaged by electron beam, spotted by Ga beam, neutron activation)

(consumed by laser ablation)

(unexpected breakup, into # pieces)

(Lost : reason)

Partly consumed by Cs (3 SIMS pits; 1 SIMS pit ~ 1 ng), C-coated,

Kept in a vacuum desiccator

**Analysis data Notes:** (summary of the attached analysis data and/or images)

See attached sheets