

General Information			
Sample Name (IGSN)	EX1605L3-D3-4		
Describer	Kevin Konrad		
Sample Location	Maug		
Lithology prefix	olivine-plagioclase		
General Lithology	basalt		
Texture 1	subtrachytic		
Texture 2			
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	100	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	0	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	100	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	0	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A plagioclase and olivine phyric basalt with a fine grained groundmass and no vesicles. Sample contains a slight alteration halo around the rim. The surface of the sample is covered in intricate bacterial mats.		
Thin Section Summary	A plagioclase and olivine phyric basalt with a cryptocrystalline groundmass. Plagioclase grains contain frequent albite twinning and occasional sector zoning. Appears to be only two zones in the plagioclase grains with a large core and thinner rim. Groundmass consists of fine plagioclase grains in a subtrachytic structure within a glass rich mesostasis.		

Whole Rock



Transmitted Light



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]	5	10						85
Present (%) [Pr]	5	10						85
Replaced / Filled (%) [Rf]	0	0						0
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.1	0.1						
Maximum Size (mm)	0.3	1						
Modal Size (mm)	0.2	0.5						
Shape	Subhedral	Subhedral						
Habit								
Zonation Type		Sector, Albite twin						
Zonation Extent		Pervasive						
Exsolution Type								
Special Features								
Comments		Sector zone grains typically show a large core and rim						

Cross Polarized



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]	5	20						75
Present (%) [Pr]	5	20						75
Replaced / Filled (%) [Rf]	0	0						0
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.01	0.01						
Maximum Size (mm)	0.03	0.1						
Modal Size (mm)	0.02	0.05						
Shape	subhedral	euhedral						
Habit		lath						
Comments		Subtrachytic texture						Seems fairly fresh but varies in different regions of the rock.