General Information			
Sample Name (IGSN)	EX1605L3-D2-1		
Describer	Kevin Konrad		
Sample Location	Pagan		
Lithology prefix	Plagioclase-Pyroxene		
General Lithology	Andesite		
Texture 1			
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 pyroxene phyric basalt with very few vesicles. Groundmass appears very fine grained, likely cryptocrystalline. Quite fresh in appearance. The surface of the sample contains numerous forms of bacterial mats.		
Thin Section Summary	A andesite (or basalt) that contains plagioclase, othropyroxene and clinopyroxene phenocrysts. Sample also contains some coarse spinel microcrysts. The groundmass is fresh and is composed of a cryptocrystalline matrix with fine plagioclase grains. The phenocrysts are often found in glomerocrystic clusters.		

Whole Rock

Transmitted Light

PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]		10	3	5	3			79
Present (%) [Pr]		10	3	5	3			79
Replaced / Filled (%) [Rf]		0	0	0	0			0
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.2	0.2	0.2	0.1			
Maximum Size (mm)		0.65	0.3	0.4	0.2			
Modal Size (mm)		0.4	0.25	0.3	0.15			
Shape		euhedral	subhedral	an-subhedral	subhedral			
Habit								
Zonation Type		sector, albite twinning						
Zonation Extent		pervasive						
Exsolution Type								
Special Features								
Comments			Parallel extinction	inclined extinction				

Cross Polarized

GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]		15						85
Present (%) [Pr]		15						85
Replaced / Filled (%) [Rf]		0						0
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.001						
Maximum Size (mm)		0.002						
Modal Size (mm)		0.002						
Shape		euhderal						
Habit		laths						
Comments								Appears fresh.