

Samples 14194-14201

Weigh bag 1031 was used on the traverse during the second EVA. Samples 14194 -14201 are small rock fragments that were left in weigh bag 1031 after samples 14306 - 14311 were removed. Their lunar location and orientation are unknown and there are no lunar surface photographs of these samples. Some of these are probably pieces broken off the larger rocks during transit.

14194

PHYSICAL CHARACTERISTICS

Mass

4.28 g

Dimensions

3.5 x 2.5 x 2.5 cm

This sample is a light gray, moderately friable, polymict breccia which appears to be bounded by freshly broken surfaces.

SURFACEFEATURES

No pits were seen on this sample and it appears to be bounded by fresh fracture surfaces. No surface glass is present. Angular clast molds with sizes ranging from less than 0.1 mm to 1.0 mm are distributed evenly over the surface indicating poor cementing of clasts to the host rock

PETROGRAPHIC DESCRIPTION

Sample 14194 is a moderately friable, light gray polymict breccia with 5 -10% fragments larger than 1 mm and 90 - 95% matrix grains smaller than 1 mm. Of the clasts larger than 1 mm, 10 - 20% are mineral fragments, 70 - 80% are lithic fragments and 20% are glass fragments. Mineral fragments consist of polycrystalline shattered aggregates of medium to light brown pyroxene and a greenish brown mineral, and single crystals of shattered feldspar. Lithic fragments are medium to dark gray cryptocrystalline fragments (possibly devitrified glass) and leucocratic fragments consisting of near equal amounts of feldspar and a dark gray mineral. Glass fragments are as large as 5 x 5 mm. These are angular, dull dark gray, and a few have vesicles.

The average grain size of the matrix is 0.1 mm and the matrix is composed of dark gray glass, brown pyroxene, one basaltic fragment (like 14053), a few fragments of the type of sample 14082, and feldspar fragments.



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