

Biotite (Stur) Sturbridge, Mass. From biotite-cordierite-garnet-magnetite-plagioclase-quartz-sillimanite gneiss

	Weight %	
SiO <sub>2</sub>	37.3	
TiO <sub>2</sub>	4.5	
Al <sub>2</sub> O <sub>3</sub>	17.3	
Fe <sub>2</sub> O <sub>3</sub>	0.71	} 16.3
FeO	15.5	
MgO	10.3	
CaO	0.42	
Na <sub>2</sub> O	0.19	
K <sub>2</sub> O	9.6	
H <sub>2</sub> O*	3.1	determined by Penfield method
F	0.54	
MnO	0.019	determined by semi-quantitative spectrographic analysis
<hr/> Total	<hr/> 99.3	oxygen equivalent for fluorine subtracted from total

Analyst: B.L. Ingram

Ref: Barker; F., 1962, Amer Min 47, p.911