Abstract Submitted
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Measurement of the Mass Attenuation Coefficient of Medical Gel #5 by Humimic Medical ANNA G. EHR, IGNACIO BIRRIEL, Morehead State University — Humimic Medical offers six different density grades of medical gel. Gelatin #5 medical gel, density of 898.4 kg/m^3 and a Young's Modulus of 1.09 x 10^5 Pa, is commonly used to simulate blood clots and brain tissue. Its texture makes it useful for medical imaging and surgical training procedures. The goal for this study is to measure the mass attenuation coefficient for a beam of beta particles and gamma rays. Sources used for this experiment were Cesium-137, Sr-90, TI-204, and CO-60. We will discuss our data collection method using a ST-360 Radiation Counter with a GM-35 probe and the coefficient values obtain for each type of source.

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