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Comparative Study of Bacterial Growth in Magnet Fields JEFFREY GALE, SAMANTHA GALE, SAMINA MASOOD, University of Houston Clear Lake — It is now well-known that magnetic fields affect bacterial growth. A comparative study of the growth rate for *Escherichia coli K-12* bacteria under the effect of different types of magnetic fields was done. Lysogenic broth was used at room temperature and the bacterial growth rates were studied in various magnetic fields including the electromagnetic field generated by a stack of Helmholtz coils. The growth rates were observed to identify the viability of the bacteria under applied magnetic field conditions.

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