

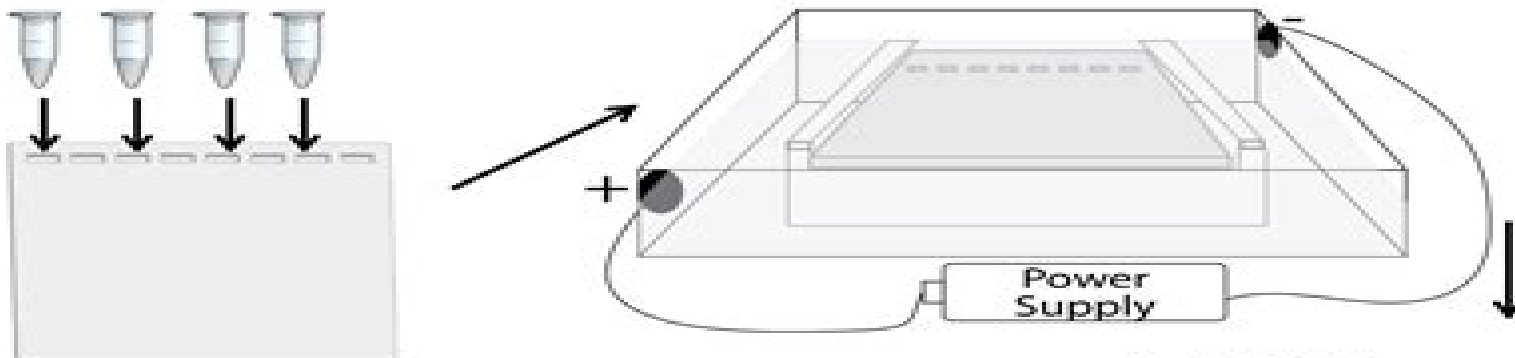
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Gel Electrophoresis is useful in identifying the size of an unknown DNA fragment. Scientists compare unknown DNA samples to a control sample called a **marker sample** or a "**ladder**". The ladder sample contains several known lengths of DNA.

In the example below, the ladder contains known fragments of DNA with lengths 100, 300, 500, 800, 1000, and 2000 base pairs long.

Wells/Lanes #	1	3	5	7
Ladder	?	?	?	?

Gel Electrophoresis Chamber for Approximately 30 Minutes

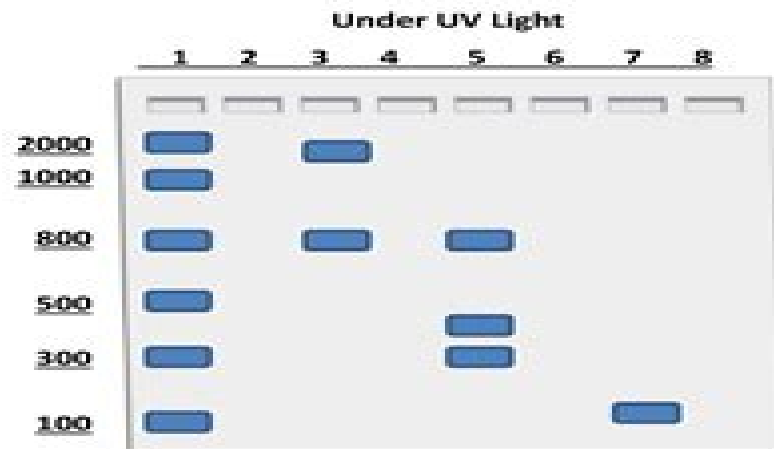


Because we know the ladder's standard fragment size, we can use this to estimate the unknown fragments in lanes 3, 5, and 7.

In Lane 3, there are at least 2 different fragments: one has a length of between 1000 and 2000 bp. One has a length close to 800 bp.

In Lane 5, there are at least 3 different DNA fragments. One is about 800 bp, one is between 300 and 500 (estimate 400), and one is about 300 bp.

In Lane 7, there is at least 1 fragment that is close to 100 base pairs in length.



It is important to note what DNA gel electrophoresis cannot do. When reading a DNA gel's bands, you cannot know if a sample has 2 or more different fragments of the same length. In the gel above, lane 7 might have 1, 2, 3, 4, or many different DNA fragments with different sequences of very similar length (around 100 bp). There is no way to distinguish between different DNA fragments with the same length using just DNA gel electrophoresis.

Gel Electrophoresis Worksheet Answers

AW Rasmussen



Gel Electrophoresis Worksheet Answers:

Unveiling the Energy of Verbal Art: An Psychological Sojourn through **Gel Electrophoresis Worksheet Answers**

In a world inundated with monitors and the cacophony of quick transmission, the profound energy and mental resonance of verbal beauty often fade into obscurity, eclipsed by the constant barrage of noise and distractions. Yet, nestled within the musical pages of **Gel Electrophoresis Worksheet Answers**, a interesting function of fictional beauty that pulses with raw emotions, lies an remarkable trip waiting to be embarked upon. Published with a virtuoso wordsmith, this magical opus books viewers on an emotional odyssey, softly exposing the latent possible and profound affect embedded within the complex web of language. Within the heart-wrenching expanse of the evocative analysis, we will embark upon an introspective exploration of the book is main themes, dissect its charming writing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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