

Fragments must first be cut in the appropriate place with the "restriction enzymes." The fragments may not lie loosely into the simulated gel electrophoresis table unless students cut them so that only the letters of the nitrogen bases are showing (cut away all excess paper above and below the bases). Use this simulation to detect which species (X, Y, or Z) is most genetically related to *Botania curus*. The key for the simulated gel electrophoresis is shown below.

Table 2 – Simulated Electrophoresis Gel (expected answers)

Marker	Negative Pole			
# of DNA bases	<i>Botania curus</i>	Species X	Species Y	Species Z
24				
23				
22		██████████		
21				
20				
19				
18				
17			██████████	
16				
15				
14				
13				
12	██████████		██████████	██████████
11	██████████			██████████
10				
9	██████████			
8		██████████		
7		██████████		
6				
5	██████████		██████████	██████████
4				
3			██████████	██████████
2				
1				

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**Marine Biological Laboratory (Woods
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