Using the same data from Example 1 (provided), recalculate LR values with LRmix and EFM assuming the following competing hypothesis

Hp: The stain comes the suspect + 1 unknown individual

Hd: The stain comes from a suspect’s sibling + 1 unknown individual

LRmix

Report most likely drop-out range: 0.01-0.23

Report LR corresponding to the most conservative drop-out value (within most likely drop-out range): 26.4

EFM

Report -loglik values (Hd) for the different combinations of parameter models

|  |  |  |  |
| --- | --- | --- | --- |
| DEGRADATION | STUTTER | -loglik | PENALIZATION |
| NO | NO | -343 | 0 |
| YES | NO | -334.9 | 1 |
| NO | YES | -343.1 | 1 |
| YES | YES | -335.1 | 2 |

Report the maximum likelihood estimation of LR for the best combination of models (according to -loglik values): 718.2