**Table S1.** Relationships among issues that must be considered when designing a screening method.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Issues that must be considered during screening | | X | | | |
| Pooling density | | Multiplex primers | |
| y | Detection Number | - | | - | |
| Detection Step | - | | - | |
| **Detection Sensitivity** | - | | - | |
| **Detection Accuracy** | - | | - | |
|  | | | | | |
| Issues that must be considered during screening | | Y | | | |
| Number of PCR reactions | Number of PCR rounds | | Automation |
| z | **Time** | + | + | | - |
| **Labor** | + | + | | - |
| **Cost** | + | + | | - |

Positive and negative relationships of issues (x, y and z) that must be considered when designing a screening method are listed in the table. The functions relating x, y and z (z=f(y); y=f(x)), and their suitable solutions depend on different research labs’ particular situations.