**SUPPLEMENTAL TABLES**

**Table S1. Comparison of the limit of detection of the MTB in sputum (Spit) compared to fresh and FFPE tissues**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Xpert MTB | **Concentration** | | | | | | | | |
| 104 CFU/mL | | | 103 CFU/mL | | | 102 CFU/mL | | |
| **Target** | **Spit** | **Tissue** | **FFPE** | **Spit** | **Tissue** | **FFPE** | **Spit** | **Tissue** | **FFPE** |
| Probe A | 100% | 100% | 100% | 100% | 100% | 100% | 0% | 0% | 0% |
| Probe B | 100% | 100% | 100% | 100% | 100% | 100% | 0% | 0% | 0% |
| Probe C | 100% | 100% | 100% | 100% | 100% | 100% | 0% | 0% | 0% |
| Probe D | 100% | 100% | 100% | 100% | 100% | 100% | 0% | 0% | 0% |
| Probe E | 100% | 100% | 100% | 100% | 100% | 100% | 0% | 0% | 0% |
| MTB detected | **100%** | **100%** | **100%** | **100%** | **100%** | **100%** | **0%** | **0%** | **0%** |

Percentage reflect the number of repeat (duplicate) that were positive in each matrix at each dilution

**Table S2: Reproducibility of Xpert MTB/RIF on FFPE samples**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sample** | **Concentration** | **Probe A** | **Probe B** | **Probe C** | **Probe D** | **Probe E** |
| FFPE | 104 | 29.0 | 30.0 | 29.5 | 30.0 | 30.4 |
| 104 | 27.9 | 28.1 | 27.9 | 28.5 | 29.2 |
| **Mean** | 28.5 | 29.1 | 28.7 | 29.3 | 29.8 |
| **SD** | 0.8 | 1.3 | 1.1 | 1.1 | 0.8 |
| **%CV** | 2.7 | 4.6 | 3.9 | 3.6 | 2.8 |
| 103 | 36.6 | 35.9 | 35.6 | 36.7 | 38.1 |
| 103 | 33.4 | 33.0 | 33.2 | 34.1 | 34.9 |
| **Mean** | 35.0 | 34.5 | 34.4 | 35.4 | 36.5 |
| **SD** | 2.3 | 2.1 | 1.7 | 1.8 | 2.3 |
| **%CV** | 6.5 | 6.0 | 4.9 | 5.2 | 6.2 |

**Table S3:** **Reproducibility of Xpert MTB/RIF on Fresh tissue samples**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sample** | **Concentration** | **Probe A** | **Probe B** | **Probe C** | **Probe D** | **Probe E** |
| Fresh tissues | 104 | 28.3 | 29.1 | 28.5 | 29.3 | 29.6 |
| 104 | 26.8 | 27.4 | 27.2 | 27.8 | 28.2 |
| **Mean** | 27.6 | 28.3 | 27.9 | 28.6 | 28.9 |
| **SD** | 1.1 | 1.2 | 0.9 | 1.1 | 1.0 |
| **%CV** | 3.8 | 4.3 | 3.3 | 3.7 | 3.4 |
| 103 | 31.8 | 31.3 | 31.5 | 32.0 | 33.2 |
| 103 | 30.0 | 29.1 | 29.7 | 30.4 | 31.5 |
| **Mean** | 30.9 | 30.2 | 30.6 | 31.2 | 32.4 |
| **SD** | 1.3 | 1.6 | 1.3 | 1.1 | 1.2 |
| **%CV** | 4.1 | 5.2 | 4.2 | 3.6 | 3.7 |

**Table S4: Reproducibility of Xpert MTB/RIF on Sputum samples**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sample** | **Concentration** | **Probe A** | **Probe B** | **Probe C** | **Probe D** | **Probe E** |
| Sputum | 104 | 28.6 | 28.6 | 28.4 | 29.3 | 30.1 |
| 104 | 30.5 | 30.6 | 30.6 | 31.2 | 31.9 |
| **Mean** | 29.6 | 29.6 | 29.5 | 30.3 | 31.0 |
| **SD** | 1.3 | 1.4 | 1.6 | 1.3 | 1.3 |
| **%CV** | 4.5 | 4.8 | 5.3 | 4.4 | 4.1 |
| 103 | 32.7 | 31.8 | 32.2 | 32.7 | 33.9 |
| 103 | 33.2 | 33.1 | 33.0 | 33.6 | 34.5 |
| **Mean** | 30.9 | 30.2 | 30.6 | 31.2 | 32.4 |
| **SD** | 1.3 | 1.6 | 1.3 | 1.1 | 1.2 |
| **%CV** | 1.1 | 2.8 | 1.7 | 1.9 | 1.2 |