**Table S2.** Precision of the NGS assay in detecting gene rearrangements.

|  |  |
| --- | --- |
| **SAMPLE** | **Fusion Detection** |
| R-IGN-15-01310 | EML4:ALK | EML4:ALK | EML4:ALK | EML4:ALK | EML4:ALK |
| R-IGN-15-01313 | EML4:ALK | EML4:ALK | EML4:ALK | EML4:ALK | EML4:ALK |
| R-IGN-14-00026 | ETV6:NTRK3 | ETV6:NTRK3 | ETV6:NTRK3 | ETV6:NTRK3 | ETV6:NTRK3 |
| R-IGN-14-00019 | ND(a) | ND | ND | ND | ND |