

Compatibility of FD enzymes in conventional buffers collected for Dr. Michael Jeltsch

FastDigest® restriction enzymes activity on different DNA substrates in other RE buffers

| FD Enzyme | Buf. R | | | Buf. O | | | Buf. Tango™ | | | Buf. B | | | Buf. G | | | Buf. Aarl, Pasl, Ajil, | | | Buf. Bful | | | Buf. Cfr9I | | | | | |
|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----|----|----|
| | Control DNA | Plasmid DNA | PCR product | Control DNA | Plasmid DNA | PCR product | Control DNA | Plasmid DNA | PCR product | Control DNA | Plasmid DNA | PCR product | Control DNA | Plasmid DNA | PCR product | Control DNA | Plasmid DNA | PCR product | Control DNA | Plasmid DNA | PCR product | Control DNA | Plasmid DNA | PCR product | | | |
| | min. | | | min. | | | min. | | | min. | | | min. | | | min. | | | min. | | | min. | | | | | |
| FD AscI (Sgsl) | 15 | 15 | 15 | NR | | | 15 | 15 | 15 | NR | | | NR | | | NR | | | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| FD BamHI | NR | | | NR | | | NR | | | NR | | | 15 | 15 | 15 | NR | | | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| FD BbsI (Bpil) | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | NR | | | 15 | 15 | 15 | 15 | 15 | 15 | 20 | 20 | 20 | NR | | | | | |
| FD BglII | 20 | 60 | 60 | 15 | 30 | 30 | NR | | | NR | | | NR | | | 20 | 60 | 60 | 20 | 60 | 60 | 20 | 60 | 60 | 20 | 60 | 60 |
| FD BsmBI (Esp3I) | NR | | | NR | | | 15 | 15 | 15 | 20 | 20 | 20 | NR | | | NR | | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| FD BsmFI (FaqI) | NR | | | NR | | | 30 | 30 | 30 | NR | | | NR | | | NR | | | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| FD EcoRI | NR | | | 10 | 10 | 20 | NR | | | NR | | | NR | | | 15 | 15 | 30 | 10 | 10 | 20 | NR | | | | | |
| FD EcoRV (Eco32I) | 15 | 15 | 15 | 15 | 15 | 15 | NR | | | NR | | | 15 | 15 | 15 | 20 | 20 | 20 | 15 | 15 | 15 | 20 | 20 | 20 | 20 | 20 | 20 |
| FD FspAI | 10 | 10 | 10 | 10 | 10 | 10 | NR | | | NR | | | NR | | | 20 | 20 | 20 | 20 | 20 | 20 | NR | | | | | |
| FD HindIII | 10 | 10 | 30 | NR | | | 15 | 15 | 30 | NR | | | NR | | | NR | | | 15 | 15 | 30 | NR | | | | | |
| FD KpnI | NR | | | NR | | | NR | | | NR | | | NR | | | NR | | | NR | | | 20 | 20 | 20 | 20 | 20 | 20 |
| FD MfeI (MunI) | NR | | | NR | | | NR | | | 15 | 15 | 15 | 15 | 15 | 15 | 20 | 20 | 20 | 20 | 20 | 20 | NR | | | | | |
| FD MluI | 10 | 10 | 10 | 15 | 15 | 15 | NR | | | NR | | | NR | | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| FD NcoI | 15 | 30 | 30 | NR | | | 15 | 20 | 20 | NR | | | NR | | | 15 | 30 | 30 | 15 | 30 | 30 | 15 | 30 | 30 | 15 | 30 | 30 |
| FD NheI | NR | | | NR | | | 15 | 30 | 15 | 20 | 30 | 20 | NR | | | 20 | 30 | 20 | 20 | 30 | 20 | 20 | 30 | 20 | 20 | 30 | 20 |
| FD NotI | NR | | | 15 | 30 | 15 | NR | | | NR | | | NR | | | NR | | | NR | | | 20 | 30 | 20 | 20 | 30 | 20 |
| FD PdiI | NR | | | NR | | | 15 | 15 | 15 | 20 | 20 | 20 | NR | | | NR | | | NR | | | 20 | 20 | 20 | 20 | 20 | 20 |
| FD PdmI | NR | | | NR | | | 15 | 15 | 15 | NR | | | 20 | 20 | 20 | NR | | | NR | | | 20 | 20 | 20 | NR | | |
| FD PstI | 15 | 15 | 60 | 15 | 15 | 60 | NR | | | NR | | | NR | | | 20 | 20 | 60 | 20 | 20 | 60 | NR | | | | | |
| FD PvuII | 15 | 15 | 15 | NR | | | NR | | | NR | | | 15 | 15 | 15 | 20 | 20 | 20 | 15 | 15 | 15 | NR | | | | | |
| FD Sall | NR | | | 20 | 20 | 60 | NR | | | NR | | | NR | | | NR | | | NR | | | NR | | | | | |
| FD SmaI | NR | | | NR | | | 10 | 10 | 10 | NR | | | NR | | | NR | | | NR | | | 15 | 15 | 15 | 15 | 15 | 15 |
| FD PaeI (SphI) | NR | | | NR | | | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | NR | | | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| FD XbaI | NR | | | NR | | | 10 | 10 | 10 | 15 | 15 | 15 | 15 | 15 | 15 | 20 | 20 | 20 | 15 | 15 | 15 | 20 | 20 | 20 | 20 | 20 | 20 |
| FD XhoI | 15 | 15 | 15 | 15 | 15 | 15 | NR | | | NR | | | 15 | 15 | 15 | NR | | | 15 | 15 | 15 | NR | | | | | |

NR = Not recommended

Unfortunately, we do not have data on compatibility of these FD enzymes in NEB buffers. Please feel free to ask for more information if needed.