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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |
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| Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |  | Mass  Ruler Mix |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T10E1 |  | T10E1 |  | T10E1 |  | T10E1 |  | T10E1 |  | T10E1 |  | T10E1 |  | T10E1 |  | T10E1 |  | T10E1 |  | T10E1 |  | T10E1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T10E5 |  | T10E5 |  | T10E5 |  | T10E5 |  | T10E5 |  | T10E5 |  | T10E5 |  | T10E5 |  | T10E5 |  | T10E5 |  | T10E5 |  | T10E5 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T10E5 |  | T10E5 |  | T10E5 |  | T10E5 |  | T10E5 |  | T10E5 |  | T10E5 |  | T10E5 |  | T10E5 |  | T10E5 |  | T10E5 |  | T10E5 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95%  EtOH |  | 95%  EtOH |  | 95%  EtOH |  | 95%  EtOH |  | 95%  EtOH |  | 95%  EtOH |  | 95%  EtOH |  | 95%  EtOH |  | 95%  EtOH |  | 95%  EtOH |  | 95%  EtOH |  | 95%  EtOH |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70%  EtOH |  | 70%  EtOH |  | 70%  EtOH |  | 70%  EtOH |  | 70%  EtOH |  | 70%  EtOH |  | 70%  EtOH |  | 70%  EtOH |  | 70%  EtOH |  | 70%  EtOH |  | 70%  EtOH |  | 70%  EtOH |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70%  EtOH |  | 70%  EtOH |  | 70%  EtOH |  | 70%  EtOH |  | 70%  EtOH |  | 70%  EtOH |  | 70%  EtOH |  | 70%  EtOH |  | 70%  EtOH |  | 70%  EtOH |  | 70%  EtOH |  | 70%  EtOH |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Iso  propyl |  | Iso  propyl |  | Iso  propyl |  | Iso  propyl |  | Iso  propyl |  | Iso  propyl |  | Iso  propyl |  | Iso  propyl |  | Iso  propyl |  | Iso  propyl |  | Iso  propyl |  | Iso  propyl |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Iso  propyl |  | Iso  propyl |  | Iso  propyl |  | Iso  propyl |  | Iso  propyl |  | Iso  propyl |  | Iso  propyl |  | Iso  propyl |  | Iso  propyl |  | Iso  propyl |  | Iso  propyl |  | Iso  propyl |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3M  NaOAc |  | 3M  NaOAc |  | 3M  NaOAc |  | 3M  NaOAc |  | 3M  NaOAc |  | 3M  NaOAc |  | 3M  NaOAc |  | 3M  NaOAc |  | 3M  NaOAc |  | 3M  NaOAc |  | 3M  NaOAc |  | 3M  NaOAc |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3M  NaOAc |  | 3M  NaOAc |  | 3M  NaOAc |  | 3M  NaOAc |  | 3M  NaOAc |  | 3M  NaOAc |  | 3M  NaOAc |  | 3M  NaOAc |  | 3M  NaOAc |  | 3M  NaOAc |  | 3M  NaOAc |  | 3M  NaOAc |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5M  KOAc |  | 5M  KOAc |  | 5M  KOAc |  | 5M  KOAc |  | 5M  KOAc |  | 5M  KOAc |  | 5M  KOAc |  | 5M  KOAc |  | 5M  KOAc |  | 5M  KOAc |  | 5M  KOAc |  | 5M  KOAc |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5M  KOAc |  | 5M  KOAc |  | 5M  KOAc |  | 5M  KOAc |  | 5M  KOAc |  | 5M  KOAc |  | 5M  KOAc |  | 5M  KOAc |  | 5M  KOAc |  | 5M  KOAc |  | 5M  KOAc |  | 5M  KOAc |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DEB |  | DEB |  | DEB |  | DEB |  | DEB |  | DEB |  | DEB |  | DEB |  | DEB |  | DEB |  | DEB |  | DEB |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DEB |  | DEB |  | DEB |  | DEB |  | DEB |  | DEB |  | DEB |  | DEB |  | DEB |  | DEB |  | DEB |  | DEB |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6X  Loading dye |  | 6X  Loading dye |  | 6X  Loading dye |  | 6X  Loading dye |  | 6X  Loading dye |  | 6X  Loading dye |  | 6X  Loading dye |  | 6X  Loading dye |  | 6X  Loading dye |  | 6X  Loading dye |  | 6X  Loading dye |  | 6X  Loading dye |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6X  Loading dye |  | 6X  Loading dye |  | 6X  Loading dye |  | 6X  Loading dye |  | 6X  Loading dye |  | 6X  Loading dye |  | 6X  Loading dye |  | 6X  Loading dye |  | 6X  Loading dye |  | 6X  Loading dye |  | 6X  Loading dye |  | 6X  Loading dye |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |  | dNTP  2.5 mM |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| sterile water |  | sterile water |  | sterile water |  | sterile water |  | sterile water |  | sterile water |  | sterile water |  | sterile water |  | sterile water |  | sterile water |  | sterile water |  | sterile water |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| sterile water |  | sterile water |  | sterile water |  | sterile water |  | sterile water |  | sterile water |  | sterile water |  | sterile water |  | sterile water |  | sterile water |  | sterile water |  | sterile water |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 µL  spermidine  20 mM |  | 10 µL  spermidine  20 mM |  | 10 µL  spermidine  20 mM |  | 10 µL  spermidine  20 mM |  | 10 µL  spermidine  20 mM |  | 10 µL  spermidine  20 mM |  | 10 µL  spermidine  20 mM |  | 10 µL  spermidine  20 mM |  | 10 µL  spermidine  20 mM |  | 10 µL  spermidine  20 mM |  | 10 µL  spermidine  20 mM |  | 10 µL  spermidine  20 mM |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 µL  spermidine  20 mM |  | 10 µL  spermidine  20 mM |  | 10 µL  spermidine  20 mM |  | 10 µL  spermidine  20 mM |  | 10 µL  spermidine  20 mM |  | 10 µL  spermidine  20 mM |  | 10 µL  spermidine  20 mM |  | 10 µL  spermidine  20 mM |  | 10 µL  spermidine  20 mM |  | 10 µL  spermidine  20 mM |  | 10 µL  spermidine  20 mM |  | 10 µL  spermidine  20 mM |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Zymo-  spin wash buffer |  | Zymo-  spin wash buffer |  | Zymo-  spin wash buffer |  | Zymo-  spin wash buffer |  | Zymo-  spin wash buffer |  | Zymo-  spin wash buffer |  | Zymo-  spin wash buffer |  | Zymo-  spin wash buffer |  | Zymo-  spin wash buffer |  | Zymo-  spin wash buffer |  | Zymo-  spin wash buffer |  | Zymo-  spin wash buffer |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Zymo-  spin wash buffer |  | Zymo-  spin wash buffer |  | Zymo-  spin wash buffer |  | Zymo-  spin wash buffer |  | Zymo-  spin wash buffer |  | Zymo-  spin wash buffer |  | Zymo-  spin wash buffer |  | Zymo-  spin wash buffer |  | Zymo-  spin wash buffer |  | Zymo-  spin wash buffer |  | Zymo-  spin wash buffer |  | Zymo-  spin wash buffer |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Zymo-  spin DNA binding buffer |  | Zymo-  spin DNA binding buffer |  | Zymo-  spin DNA binding buffer |  | Zymo-  spin DNA binding buffer |  | Zymo-  spin DNA binding buffer |  | Zymo-  spin DNA binding buffer |  | Zymo-  spin DNA binding buffer |  | Zymo-  spin DNA binding buffer |  | Zymo-  spin DNA binding buffer |  | Zymo-  spin DNA binding buffer |  | Zymo-  spin DNA binding buffer |  | Zymo-  spin DNA binding buffer |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Zymo-  spin DNA binding buffer |  | Zymo-  spin DNA binding buffer |  | Zymo-  spin DNA binding buffer |  | Zymo-  spin DNA binding buffer |  | Zymo-  spin DNA binding buffer |  | Zymo-  spin DNA binding buffer |  | Zymo-  spin DNA binding buffer |  | Zymo-  spin DNA binding buffer |  | Zymo-  spin DNA binding buffer |  | Zymo-  spin DNA binding buffer |  | Zymo-  spin DNA binding buffer |  | Zymo-  spin DNA binding buffer |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RLT |  | RLT |  | RLT |  | RLT |  | RLT |  | RLT |  | RLT |  | RLT |  | RLT |  | RLT |  | RLT |  | RLT |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RLT |  | RLT |  | RLT |  | RLT |  | RLT |  | RLT |  | RLT |  | RLT |  | RLT |  | RLT |  | RLT |  | RLT |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RW1 |  | RW1 |  | RW1 |  | RW1 |  | RW1 |  | RW1 |  | RW1 |  | RW1 |  | RW1 |  | RW1 |  | RW1 |  | RW1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RW1 |  | RW1 |  | RW1 |  | RW1 |  | RW1 |  | RW1 |  | RW1 |  | RW1 |  | RW1 |  | RW1 |  | RW1 |  | RW1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RDD |  | RDD |  | RDD |  | RDD |  | RDD |  | RDD |  | RDD |  | RDD |  | RDD |  | RDD |  | RDD |  | RDD |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RDD |  | RDD |  | RDD |  | RDD |  | RDD |  | RDD |  | RDD |  | RDD |  | RDD |  | RDD |  | RDD |  | RDD |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 µL  DNAse |  | 10 µL  DNAse |  | 10 µL  DNAse |  | 10 µL  DNAse |  | 10 µL  DNAse |  | 10 µL  DNAse |  | 10 µL  DNAse |  | 10 µL  DNAse |  | 10 µL  DNAse |  | 10 µL  DNAse |  | 10 µL  DNAse |  | 10 µL  DNAse |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 µL  DNAse |  | 10 µL  DNAse |  | 10 µL  DNAse |  | 10 µL  DNAse |  | 10 µL  DNAse |  | 10 µL  DNAse |  | 10 µL  DNAse |  | 10 µL  DNAse |  | 10 µL  DNAse |  | 10 µL  DNAse |  | 10 µL  DNAse |  | 10 µL  DNAse |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RPE |  | RPE |  | RPE |  | RPE |  | RPE |  | RPE |  | RPE |  | RPE |  | RPE |  | RPE |  | RPE |  | RPE |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RPE |  | RPE |  | RPE |  | RPE |  | RPE |  | RPE |  | RPE |  | RPE |  | RPE |  | RPE |  | RPE |  | RPE |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 mM  Tris  pH 7.5 |  | 10 mM  Tris  pH 7.5 |  | 10 mM  Tris  pH 7.5 |  | 10 mM  Tris  pH 7.5 |  | 10 mM  Tris  pH 7.5 |  | 10 mM  Tris  pH 7.5 |  | 10 mM  Tris  pH 7.5 |  | 10 mM  Tris  pH 7.5 |  | 10 mM  Tris  pH 7.5 |  | 10 mM  Tris  pH 7.5 |  | 10 mM  Tris  pH 7.5 |  | 10 mM  Tris  pH 7.5 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 mM  Tris  pH 7.5 |  | 10 mM  Tris  pH 7.5 |  | 10 mM  Tris  pH 7.5 |  | 10 mM  Tris  pH 7.5 |  | 10 mM  Tris  pH 7.5 |  | 10 mM  Tris  pH 7.5 |  | 10 mM  Tris  pH 7.5 |  | 10 mM  Tris  pH 7.5 |  | 10 mM  Tris  pH 7.5 |  | 10 mM  Tris  pH 7.5 |  | 10 mM  Tris  pH 7.5 |  | 10 mM  Tris  pH 7.5 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.1%  agar |  | 0.1%  agar |  | 0.1%  agar |  | 0.1%  agar |  | 0.1%  agar |  | 0.1%  agar |  | 0.1%  agar |  | 0.1%  agar |  | 0.1%  agar |  | 0.1%  agar |  | 0.1%  agar |  | 0.1%  agar |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.1%  agar |  | 0.1%  agar |  | 0.1%  agar |  | 0.1%  agar |  | 0.1%  agar |  | 0.1%  agar |  | 0.1%  agar |  | 0.1%  agar |  | 0.1%  agar |  | 0.1%  agar |  | 0.1%  agar |  | 0.1%  agar |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| oligo dT  50µM |  | oligo dT  50µM |  | oligo dT  50µM |  | oligo dT  50µM |  | oligo dT  50µM |  | oligo dT  50µM |  | oligo dT  50µM |  | oligo dT  50µM |  | oligo dT  50µM |  | oligo dT  50µM |  | oligo dT  50µM |  | oligo dT  50µM |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| oligo dT  50µM |  | oligo dT  50µM |  | oligo dT  50µM |  | oligo dT  50µM |  | oligo dT  50µM |  | oligo dT  50µM |  | oligo dT  50µM |  | oligo dT  50µM |  | oligo dT  50µM |  | oligo dT  50µM |  | oligo dT  50µM |  | oligo dT  50µM |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 mM  dNTP |  | 10 mM  dNTP |  | 10 mM  dNTP |  | 10 mM  dNTP |  | 10 mM  dNTP |  | 10 mM  dNTP |  | 10 mM  dNTP |  | 10 mM  dNTP |  | 10 mM  dNTP |  | 10 mM  dNTP |  | 10 mM  dNTP |  | 10 mM  dNTP |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 mM  dNTP |  | 10 mM  dNTP |  | 10 mM  dNTP |  | 10 mM  dNTP |  | 10 mM  dNTP |  | 10 mM  dNTP |  | 10 mM  dNTP |  | 10 mM  dNTP |  | 10 mM  dNTP |  | 10 mM  dNTP |  | 10 mM  dNTP |  | 10 mM  dNTP |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RNase-free  H2O |  | RNase-free  H2O |  | RNase-free  H2O |  | RNase-free  H2O |  | RNase-free  H2O |  | RNase-free  H2O |  | RNase-free  H2O |  | RNase-free  H2O |  | RNase-free  H2O |  | RNase-free  H2O |  | RNase-free  H2O |  | RNase-free  H2O |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RNase-free  H2O |  | RNase-free  H2O |  | RNase-free  H2O |  | RNase-free  H2O |  | RNase-free  H2O |  | RNase-free  H2O |  | RNase-free  H2O |  | RNase-free  H2O |  | RNase-free  H2O |  | RNase-free  H2O |  | RNase-free  H2O |  | RNase-free  H2O |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5X 1st  strand  buffer |  | 5X 1st  strand  buffer |  | 5X 1st  strand  buffer |  | 5X 1st  strand  buffer |  | 5X 1st  strand  buffer |  | 5X 1st  strand  buffer |  | 5X 1st  strand  buffer |  | 5X 1st  strand  buffer |  | 5X 1st  strand  buffer |  | 5X 1st  strand  buffer |  | 5X 1st  strand  buffer |  | 5X 1st  strand  buffer |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5X 1st  strand  buffer |  | 5X 1st  strand  buffer |  | 5X 1st  strand  buffer |  | 5X 1st  strand  buffer |  | 5X 1st  strand  buffer |  | 5X 1st  strand  buffer |  | 5X 1st  strand  buffer |  | 5X 1st  strand  buffer |  | 5X 1st  strand  buffer |  | 5X 1st  strand  buffer |  | 5X 1st  strand  buffer |  | 5X 1st  strand  buffer |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.1M  DTT |  | 0.1M  DTT |  | 0.1M  DTT |  | 0.1M  DTT |  | 0.1M  DTT |  | 0.1M  DTT |  | 0.1M  DTT |  | 0.1M  DTT |  | 0.1M  DTT |  | 0.1M  DTT |  | 0.1M  DTT |  | 0.1M  DTT |
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