

BigDye 3.1 Sequencing Standards

【Name】

BigDye 3.1 Sequencing Standards

【Package】

YST0229-01, 16 capillary calibration

YST0229-02, 48 capillary calibration

YST0229-03, 96 capillary calibration

【Usage】

BigDye 3.1 Sequencing Standards used for instrument and spectral calibrations.

【Introduction】

Good performance, stable signals.

【DNA Standard Sequence】

GAATTGTAATACGACTCACTATAGGGCGAATTCGAGCTCGGTACCCGGGGATCC
TCTAGAGTCGACCTGCAGGCATGCAAGCTTGAGTATTCTATAGTGTACCTAAAT
AGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCA
CAATCCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCC
TAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTCCAGT
CGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAG
AGGCGGTTTTCGTATTGGGCGCTCTTCCGCTTCCCTCGCTCACTGACTCGCTGCG
CTCGGTGCTTTCGGTCTCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATAC
GGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAGG
CCAGCAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATA
GGCTCCGCCCCCTGACGAGCATCAGAAAATCGACGCTCAAGTCAGAGGTGG
CGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTC
GTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCCGCTTTCTCC
CTTCGGGAAGCGTGGCGCTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGG
TGTAGGTCGTTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCGTTTCAGCCC
GACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACAC
GACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTA
TGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAG
AAGGACAGTATTTGGTATCTGCGCTCTGCTGAAG

【Method】**I. Preparation for spectral calibration using sequencing standards:**

1. Add 180 μ L Hi-Di formamide(Cat.No.YST0170)into BigDye 3.1 Sequencing Standards tube.

2.Vortex for 1 minute,then centrifuge briefly in a microcentrifuge to collect contents at the bottom of the tube.

3. Denature the DNA fragments.

a. Incubate the microcentrifuge tube at 95 $^{\circ}$ C for 2 minutes.

b. Incubate the microcentrifuge tube at 4 $^{\circ}$ C ,or on ice,for 2 minutes.Immediately proceed to the next step.

4. Dispense 10 μ L of the standard into a 96-well plate, 16 capillaries from A1 to H2, 4 capillaries from A1 to D1.

5. Centrifuge to ensure the standard settles to the bottom of the tubes.

6. Run the plate on the instrument.

7. For more information, see your instrument user guide.

II. Preparation for sequencing using sequencing standards:

1. Add 180 μ L Hi-Di formamide(Cat.No.YST0170)into BigDye 3.1 Sequencing Standards tube.

2.Vortex for 1 minute,then centrifuge briefly in a microcentrifuge to collect contents at the bottom of the tube.

3. Denature the DNA fragments.

a. Incubate the microcentrifuge tube at 95 $^{\circ}$ C for 2 minutes.

b. Incubate the microcentrifuge tube at 4 $^{\circ}$ C ,or on ice,for 2 minutes.Immediately proceed to the next step.

4. Dispense 10 μ L of the standard into a 96-well plate, 16 capillaries from A1 to H2, 4 capillaries from A1 to D1.

5. Centrifuge to ensure the standard settles to the bottom of the

tubes.

6. Run the plate on the instrument.

7. Run samples using the appropriate Sequencing Module and Dye Set Z.

【Notes】

All relevant consumables shall be disposable to prevent cross contamination

Operators must receive professional training

Wear gloves and working clothes for protection

Do not use expired reagents

【Storage】

Keep reagents at $-20^{\circ}\text{C} \pm 5^{\circ}\text{C}$, avoid repeated freezing and thawing. It can be stored for 1 year at $-20^{\circ}\text{C} \pm 5^{\circ}\text{C}$.