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## Certificate of Analysis

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### Vivid Violet DNA/RNA Co-Precipitate Catalog No: 4502

**Lot No:** 2707036

**Package Size:** See Product Label

**Concentration:** 10 mg/ml

**Stored In:** Nuclease-free water

**Storage Conditions:** Store at +4°C

#### Quality Control

**Endonuclease:** Incubation of 25, 45, and 65 µg of Linear Polyacrylamide (LPA) with 1.0 µg of pBR322 DNA at 37°C for 1 hour resulted in <10 % conversion of RF I to RF II DNA and ≤10% conversion of RF II and ≤5% conversion to RF III. Reaction volume of 50 µl.

**3'-Exonuclease:** Incubation of 25, 50, and 100 µg of LPA with 5 pmoles of 3'-ends of lambda/Taq I fragments (3'-labeled with Klenow exo- and [<sup>3</sup>H]dCTP), incubated for 1 hour at 37°C resulted in a ≤5% slope of %-end label released per µg of LPA. Reaction volume of 50 µl.

**5'-Exonuclease/5'-Phosphatase:** Incubation of 25, 50, and 100 µg µg of LPA with 0.5 µg of 5'-ends of 5'-[<sup>32</sup>P]lambda/Hae III DNA fragments for 1 hour at 37°C resulted in ≤5% slope of %-end label released per µg LPA. Reaction volume of 50 µl.

**DNase, double-stranded:** Incubation of 25, 50, and 100 µg µg of LPA with 0.30 µg of [<sup>32</sup>P]lambda DNA for 1 hour at 37°C resulted in ≤5% slope of %-end label released per µg LPA. Reaction volume of 20 µl.

**DNase, single-stranded:** Incubation of 25, 50, and 100 µg of LPA with 0.30 µg of [<sup>33</sup>P]lambda single-stranded DNA for 1 hour at 37°C resulted in ≤5% slope of %-end label released per µg LPA. Reaction volume of 20 µl.

**RNase:** Incubation of 25, 50, and 100 µg of LPA with a transcript of pPVI / Pvu II for 1 hour at 37°C resulted in ≤5% slope of %-end label released per µg LPA. Reaction volume of 50 µl.

#### Procedure

1. Add 0.1 volume of 3M sodium acetate to the nucleic acid sample.
2. Add 0.5 µg of Vivid Violet per µl of sample.
3. Add 2.5 volumes of 95% ethanol.
4. Centrifuge immediately for 5 minutes.
5. Vivid Violet pellet is clearly visible.
6. Wash pellet with 70% ethanol.
7. Dry pellet in speed-vac for approximately 4 minutes or air-dried for 20 minutes.
8. Dissolve sample in nuclease free water or buffer of choice.

**Note 1. Vivid Violet does not interfere with SDA, PCR, RT-PCR, restriction enzyme digestion, agarose gel electrophoresis, or fluorometric determination of nucleic acid content.**

**Note 2. Vivid Violet does absorb at A260, so correction of absorbance readings is required.**

*For more information or to re-order, please visit [www.chimerx.com](http://www.chimerx.com)*