



Certificate of Analysis

COA No: CA BN-0006

Version: 04

dATP 100mM

For Research Use Only

Storage Conditions: -20°C

Lot number: DA-516104

Expiry date: May 2018

Quality Control Parameters

2'-deoxyadenosine-5'-triphosphate



MW = 514.916 g/mol

Certified <1% deoxynucleoside monophosphates and deoxynucleoside diphosphates

| Characteristics | Specification | Result |
|--|---------------------------|----------|
| Concentration (at λ_{max} , pH 7.0, $\epsilon = 15.4 \text{ E} \times \text{mmol}^{-1} \times \text{cm}^{-1}$) | 100 mM \pm 5% | 102.9 mM |
| pH of Solution(at 20°C) | 7.5 – 8.0 | 0.751 |
| λ_{max} (at pH 7.0) | 259 \pm 1 nm | 259.5 nm |
| A250/A260 | 0.78 \pm 0.03 | 0.78 |
| A280/A260 | 0.15 \pm 0.02 | 0.14 |
| Purity dATP (HPLC Area % at λ_{max}) | \geq 99% | >99.7% |
| dNDP + dNMP (HPLC Area % at λ_{max}) | <1% | Passed |
| Appearance | Clear colourless solution | Passed |

United Kingdom
Headquarters UK

USA

Germany

France

Australia

Singapore

info.uk@bioline.com

Tel: +44 (0)20 8830 5300
Fax: +44 (0)20 8452 2822

info.us@bioline.com

Tel: +1 508 880 8990
Fax: +1 508 880 8993

info.de@bioline.com

Tel: +49 (0)3371 681 229
Fax: +49 (0)3371 681 244

Info.fr@bioline.com


Tel: +33 (0)1 42 56 04 40
Fax: +33 (0)9 70 06 62 10

info.aust@bioline.com

Tel: +61 (0)2 9209 4180
Fax: +61 (0)2 9209 4763

Info.sg@bioline.com

Tel: +65 6774 7196
Fax +65 6774 6441

| | | |
|--|----------------------------------|--------------------|
|  | <h2>Certificate of Analysis</h2> | COA No: CA BN-0006 |
| | | Version: 04 |

| Analysis | Specification | Result |
|----------------------------------|---|--------|
| Functional | A 3Kb Lambda DNA fragment is amplified with a dilution series of dATP, using standard conditions and 30 cycles. Single distinct bands were observed with agarose gel electrophoresis (ethidium stained). | Passed |
| DNA contamination | Quantitative PCR analysis with no template. Presence of <i>E. coli</i> and mouse genomic DNA checked. Test sample must amplify in line with a reference sample. | Passed |
| DNase / RNase / Nicking Activity | Incubation of a 1Kb double stranded DNA fragment. Incubation for 4 hours at 37°C with dilution series of DNase I. Analysed by agarose gel electrophoresis. Test sample must show less degradation than the limit of detection 2.5×10^{-3} U DNase. | Passed |
| | Quantitative PCR analysis with high and low RNase standards. Test sample must show less RNase activity than the limit of detection 9.7×10^{-3} ng/ μ L RNase. | Passed |
| | Incubation of dATP with supercoiled control plasmid. Analysed by agarose gel electrophoresis. Test sample does not show an increase of linearized or relaxed plasmid. | Passed |

Authorised by Christopher Weatherall



United Kingdom
Headquarters UK

info.uk@bioline.com
Tel: +44 (0)20 8830 5300
Fax: +44 (0)20 8452 2822

USA

info.us@bioline.com
Tel: +1 508 880 8990
Fax: +1 508 880 8993

Germany

info.de@bioline.com
Tel: +49 (0)3371 681 229
Fax: +49 (0)3371 681 244

France

info.fr@bioline.com
Tel: +33 (0)1 42 56 04 40
Fax: +33 (0)9 70 06 62 10

Australia

info.aust@bioline.com
Tel: +61 (0)2 9209 4180
Fax: +61 (0)2 9209 4763

Singapore

Info.sg@bioline.com
Tel: +65 6774 7196
Fax +65 6774 6441