Bio-Rad’s PureBlu Nuclear Staining Dyes are high-purity formulations of 4',6-diamidino-2-phenylindole dihydrochloride (DAPI) and Hoechst 33342. PureBlu Dyes are packaged in an easy-to-use format and are useful for staining cell nuclei for cell imaging and determining cell viability and quantifying DNA in flow cytometry applications.

- Both dyes enable quantifiable staining of cell DNA
- Hoechst 33342 has better live cell membrane permeability than DAPI
- DAPI can be used for viability and cell cycle analysis in flow cytometry
- Both dyes have a >95% purity formulation for reliable results

Visit [bio-rad.com/web/PureBlu1](http://bio-rad.com/web/PureBlu1) for more information.
Easily Stain Cell Nuclei

PureBlu Dyes bind with high affinity to the minor groove of AT-rich DNA sequences in eukaryotic and prokaryotic cells in a stoichiometric fashion. As the proportion of dyes is equal to the amount of DNA in the cell, these dyes can be used for flow cytometry cell cycle analysis via quantification of the DNA content. The localization to the cell nuclei also allows for cell counting and identification in imaging applications.

Available as 95% pure compounds, PureBlu DAPI is suggested for fixed cells and PureBlu Hoechst 33342 for live cells. PureBlu DAPI can be used as a viability dye in flow cytometry because the dye amasses in greater quantity in dead cells with a compromised membrane than live cells. Both reagents are compatible with all multicolor cell imaging applications that include the use of an ultraviolet (Hoechst and DAPI) or violet (DAPI) light source.

### Ordering Information

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
<th>Maximum Excitation, nm</th>
<th>Maximum Emission, nm</th>
<th>Optimal Excitation Laser, nm</th>
<th>S3e™ Cell Sorter</th>
<th>ZE5 Cell Analyzer</th>
<th>ZOE Fluorescent Cell Imager</th>
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<tr>
<td>1351303</td>
<td>PureBlu DAPI*</td>
<td>359</td>
<td>481</td>
<td>355</td>
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<td>1351304</td>
<td>PureBlu Hoechst 33342**</td>
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<td>481</td>
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</tbody>
</table>

* Includes 5 x 50 µg vials of DAPI powder.
** Includes 5 x 56 µg vials of Hoechst 33342 powder.

Triton is a trademark of Dow Chemical Company.

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**Bio-Rad Laboratories, Inc.**

**Life Science Group**

Web site: bio-rad.com  USA 1 800 424 6723  Australia 61 2 9914 2800  Austria 43 01 877 89019  Belgium 32 03 710 53 00  Brazil 55 11 3065 7550  Canada 1 905 364 3435  China 86 10 6169 8550  Czech Republic 36 01 459 6792  Denmark 45 04 452 10 00  Finland 35 08 980 422 00  France 33 01 479 593 00  Germany 49 089 3188 4393  Hong Kong 852 2789 3300  Hungary 36 01 459 6190  India 91 124 4029300  Israel 972 03 963 6050  Italy 39 02 49488600  Japan 81 3 6361 7000  Korea 82 2 3473 4460  Mexico 52 555 488 7670  The Netherlands 31 0 318 540 666  New Zealand 64 9 415 2280  Norway 47 0 233 841 30  Poland 36 01 459 6191  Portugal 351 21 4727717  Russia 7 495 721 14 04  Singapore 65 6415 3188  South Africa 36 01 459 6193  Spain 34 091 49 06 580  Sweden 46 08 555 127 00  Switzerland 41 0617 17 9555  Taiwan 886 2 2578 7189  Thailand 66 2 651 8311  United Arab Emirates 971 4 8187300  United Kingdom 44 01923 47 1301