


Specification

BCIP BioChemica

A1117

Solubility:	20 mg/mL (DMF)
Physical Description:	Solid
Product Code:	A1117
Product Name:	BCIP BioChemica
Specifications:	Assay (HPLC): min. 98 % λ_{max} . (buffer pH 7.0): 286 - 294 nm Water (K.F.): max. 1 %
Hazard pictograms	
WGK:	1
Storage:	-20°C protected from light
Signal Word:	Attention
GHS Symbols:	GHS07
H Phrases:	H315 H319 H335
P Phrases:	P261 P280 P304+P340 P305+P351+P338 P405 P501

AppliChem GmbH

Ottoweg 4 • D-64291 Darmstadt • Phone +49 6151 9357 0 • Fax +49 6151 9357 11 • info.de@itwreagents.com • www.itwreagents.com
CEO Joan Roget • Commerzbank Darmstadt • Bank 508 800 50 • Account 0186989900 IBAN DE24 5088 0050 0186 9899 00 • Swiftcode DRESDEFF508 • Finanzamt Darmstadt 07 228 16476 • Register court Darmstadt HRB Nr. 7340

Specification

BCIP BioChemica

A1117

Molecular Formula:	$C_8H_6BrClNO_4P \cdot C_7H_9N$
M:	433.64 g/mol
CAS:	6578-06-9
EINECS:	229-506-1
CS:	29339980
Comment BCIP (X-Phos p-Toluidine salt) is a substrate of the alkaline phosphatase, which releases the blue stain 5-Bromo-4-chloro-3-indoxyl (X) by cleaving the substrate. The enzymatically released indoxyl will be oxidized by NBT (A1243) to reveal the insoluble indigo. Depending on the author, BCIP is dissolved in anhydrous dimethylformamide (DMF) or DMSO in concentrations ranging from 5 to 50 mg/ml and stored at -20°C or +4°C. Solutions of BCIP are stable for approx. 1 year at +4°C.	
Bibliography (1)Horwitz, J.P. <i>et al.</i> (1966) <i>J. Med. Chem.</i> 9 , 447Substrate for cytohistochemical determination of enzyme activities\: Dihalo-3-indolylphosphates. (2)Gossrau, R. (1978) <i>Histochemistry</i> 58 , 203-218Comparison of the sensitivity of different hydrolase substrates for their histochemical determination. (3)Leary, J.J. <i>et al.</i> (1983) <i>Proc. Natl. Acad. Sci. USA</i> 80 , 4045-4049Bio-blots for DNA and RNA with BCIP as a substrate/phosphatase linked antibody. (4)Ey, P.L. & Ashman, L.K. (1986) <i>Methods Enzymol.</i> 121 , 497-509Determination of alkaline phosphatase connected antibodies in immunoblots. (5)Ausubel, F.A., Brent, R., Kingston, R.E., Moore, D.D., Seidman, J.G., Smith, J.A. & Struhl, K. (eds.) (1995) <i>Current Protocols</i> <i>in Molecular Biology</i> . Supplement 66, Page 10.8.17. Greene Publishing & Wiley-Interscience, New York.	

AppliChem GmbH

Ottoweg 4 • D-64291 Darmstadt • Phone +49 6151 9357 0 • Fax +49 6151 9357 11 • info.de@itwreagents.com • www.itwreagents.com
 CEO Joan Roget • Commerzbank Darmstadt • Bank 508 800 50 • Account 0186989900 IBAN DE24 5088 0050 0186 9899 00 • Swiftcode
 DRESDEFF508 • Finanzamt Darmstadt 07 228 16476 • Register court Darmstadt HRB Nr. 7340