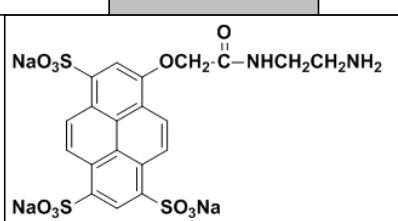


<b>Certificate of Analysis</b> (C of A)					
<b>Name:</b>	PyBlue ethylenediamine, trisodium salt				
<b>Catalog Number:</b>	7389	<b>Lot:</b>	50867		
<b>CAS Number:</b>	138039-52-8	<b>Formula:</b>	C <sub>20</sub> H <sub>15</sub> N <sub>2</sub> Na <sub>3</sub> O <sub>11</sub> S <sub>3</sub>		
<b>Molecular Weight:</b>	624.50 (g/mol)				
	<b>Observed</b>	<b>Standard</b>			
<b>HPLC Purity:</b>	99% at 254 nm		≥ 90% at 254 nm		
<b>Absorption (Buffer pH 8)</b>					
<b>Wavelength (λ<sub>max</sub>):</b>	399 nm		398 ± 3 nm		
<b>Extinction:</b>	30,100 cm <sup>-1</sup> M <sup>-1</sup>		30,000 ± 2,500 cm <sup>-1</sup> M <sup>-1</sup>		
<b>Storage:</b>	Store at Room Temperature (RT), Protect from moisture (D), Protect from light (L)				
<b>Production Lot:</b>	14521	<b>Release:</b>	29-Oct-2014	<b>Expiration:</b>	29-Oct-2034
<b>Structure:</b>	<div style="text-align: center;">  </div>				

This data reflects the accuracy of the analysis of the subject lot  
 For research use only. Not for human use. No animal source.  
 This material is chemically synthesized and manufactured in the USA

**Approved by:** Dianna M Wineinger  
 Analytical Services Manager

**Date:** 29-Oct-2014

**Signature:** 