

## CERTIFICATE OF ANALYSIS

<b>PRODUCT:</b>	<b>Caspase-9 Substrate (Chromogenic)</b> [Ac-LEHD-pNA; Ac-Leu-Glu-His-Asp-pNA (pNA = p-Nitroaniline)]; C <sub>29</sub> H <sub>38</sub> N <sub>8</sub> O <sub>11</sub> , M.W. 674.7
<b>PRODUCT NUMBER:</b>	C-1177
<b>LOT NUMBER:</b>	C1296A
<b>APPEARANCE:</b>	White lyophilized powder
<b>SOLUBILITY:</b>	Soluble in DMSO. Can be further diluted with buffer, pH 7.5.
<b>PURITY (HPLC):</b>	≥ 99%
<b>PEPTIDE CONTENT:</b>	75 - 95%
<b>IDENTITY (MS):</b>	Identical to standard reference
<b>PRODUCT DESCRIPTION:</b>	Chromogenic substrate for caspase-9 and cysteine proteases. Similar to Ac-LEHD-AMC (Prod.# C-1179) and Ac-LEHD-AFC but cleavage is monitored colorimetrically by absorbance at 405nm. λ <sub>max</sub> of pNA is 400nm.
<b>PROTOCOL:</b>	<p><u>HEPES-Buffer:</u> 100 mM HEPES, pH 7.5; 20% (v/v) glycerol; 5 mM DTT, 0.5 mM EDTA.</p> <p><u>Substrate:</u> Prepare 1 mM stock solution in DMSO.</p> <ul style="list-style-type: none"><li>- Induce apoptosis and prepare cell lysate or use recombinant caspase.</li><li>- Prepare reaction solution: 30 μl of substrate stock solution + 240 μl HEPES-Buffer + 30 μl of cell lysate.</li><li>- Incubate for 1 hour at 37 °C.</li><li>- Measure with microplate reader at 400nm.</li><li>- Suggested controls: Reaction mixture... ...without substrate.</li></ul>

# A.G. Scientific, Inc.

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...with non-apoptotic cell lysate.  
...with apoptotic cell lysate and caspase inhibitor.

## STORAGE & HANDLING:

Keep cool and dry at  $-20^{\circ}\text{C}$ .

CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified:

A handwritten signature in blue ink, appearing to be 'J. Smith', is written over a light blue horizontal line.