

## CERTIFICATE OF ANALYSIS

<b>PRODUCT:</b>	<b>All-trans Retinal</b> all-trans-Vitamin A Aldehyde, Retinene [(all-E)-3,7-Dimethyl-9-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2,4,6,8-nonatetraenal] C <sub>20</sub> H <sub>28</sub> O, M.W. 284.44, CAS# [116-31-4]
<b>PRODUCT NUMBER:</b>	R-1048
<b>LOT NUMBER:</b>	G1281A
<b>APPEARANCE:</b>	Yellow to Orange solid
<b>SOLUBILITY:</b>	Chloroform, Methanol, Ethyl Acetate
<b>PURITY:</b>	97%
<b>MELTING POINT:</b>	63-64.5°C
<b>IDENTITY:</b>	Confirmed by <sup>1</sup> H-NMR (CDCl <sub>3</sub> ) and MS
<b>OTHER DATA:</b>	TLC conditions: SiO <sub>2</sub> ; Hexane: Ethyl Acetate = 4:1; Visualized with UV and AMCS; R <sub>f</sub> = 0.40.
<b>STORAGE &amp; HANDLING:</b>	Store at -20°C. <b>PACKAGED UNDER INERT GAS!</b> <b>HYGROSCOPIC! PROTECT FROM LIGHT!</b>

CAUTION: For research 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: LA