

Headquarters: Alomone Labs Ltd. Har Hotzvim Hi-Tech Park P.O. Box 4287, Jerusalem 91042, Israel.

Tel: +972-2-587 2202 Fax: +972-2-587 1101 or +972-2-642 6975 email: alomone@netvision.net.il <http://www.alomone.com>

PRODUCT # T-220

LOT #TB-01;TB-02

CERTIFICATE OF ANALYSIS
tBuBHQ

M.W.: 222.33 daltons.
Purity: Greater than 97% by HPLC.
Chemical Name: 2, 5 -Di (tert-butyl) - 1, 4 - benzohydroquinone
M.P.: 216-218° C.

Contents:

Each vial contains either 250 mg or 1 gram of tBuBHQ.

Solubility:

Organic solvents.

Storage and Stability:

Lyophilized form: 2 years at room temperature.

Liquid form: Up to one week at 4° C.

IMPORTANT: Protect from light!

Known action:

tBuBHQ is an inhibitor of the endoplasmic reticulum (ER) Ca²⁺-ATPase. ¹

Bioassay:

tBuBHQ is often used to elevate the intracellular Ca²⁺ concentration, bypassing any plasma membrane channels. It is also used to evaluate the contribution of Ca²⁺ donated by release from the ER to various physiological Ca²⁺ dependent phenomena.¹⁻³

References:

1. Kass, E. N. *et al.* (1989) *J. Biol. Chem.* **264**, 15192.
2. Authi, K. S. *et al.* (1993) *Biochem. J.* **294**, 119.
3. Shimamoto, H. *et al.* (1992) *Biol. Signals* **1**, 182.