

Anti-staphylococcal activity and mode of action of thioridazine photoproducts

Tatiana Tozar^{1,*}, Sofia Santos Costa², Ana-Maria Udrea^{1,3}, Viorel Nastasa^{1,4}, Isabel Couto²,
Miguel Viveiros², Mihail Lucian Pascu^{1,5,*}, Mihaela Oana Romanitan⁶

¹Laser Department, National Institute for Laser, Plasma and Radiation Physics, Magurele, Ilfov, Romania

²Global Health and Tropical Medicine, GHTM, Instituto de Higiene e Medicina Tropical, IHMT, Universidade

Nova de Lisboa (UNL), Lisbon, Portugal

³Department of Anatomy, Animal Physiology and Biophysics, Faculty of Biology, University of Bucharest,
Bucharest, Romania

⁴ELI-NP, “Horia Hulubei” National Institute for Physics and Nuclear Engineering, Magurele, Ilfov, Romania

⁵Faculty of Physics, University of Bucharest, Magurele, Romania

⁶Stockholm South General Hospital, Department of Emergency internal medicine and Neurology, Karolinska
Institute

Stroke Research Network at Södersjukhuset, 118 83 Stockholm, Sweden

*Corresponding author: mihai.pascu@inflpr.ro; tatiana.alexandru@inflpr.ro Tel./Fax: +40 21 457 5739

Table S1 presents the results regarding the capacity of unirradiated and irradiated TZ solutions to inhibit the efflux pumps of *S. epidermidis* ATCC 12228 EtBr and *S. aureus* ATCC 25923 (MSSA) EtBr.

Table S1. Efflux pump inhibitory effect of TZ against Gram-positive bacteria. TZ_{*i*} represents TZ solution irradiated *i* minutes, *i*=1-240 min, $\frac{1}{2}$ MIC represents half of TZ_{*i*} MIC value against the corresponding strain, and $\frac{1}{4}$ MIC represents one quarter of the TZ_{*i*} MIC value against the corresponding strain.

Strain \ Compound	<i>S. epidermidis</i> ATCC 12228	<i>S. epidermidis</i> EtBr	<i>S. aureus</i> ATCC 25923 (MSSA)	<i>S. aureus</i> ATCC 25923 (MSSA) EtBr
CIP	0.125	4	0.25	2
TZ ₀ - $\frac{1}{2}$ MIC	0.125	4	0.25	1
TZ ₀ - $\frac{1}{4}$ MIC	0.125	4	0.25	2
TZ ₁₅ - $\frac{1}{2}$ MIC	0.125	4	0.25	2
TZ ₁₅ - $\frac{1}{4}$ MIC	0.125	4	0.25	2
TZ ₃₀ - $\frac{1}{2}$ MIC	0.125	4	0.25	2
TZ ₃₀ - $\frac{1}{4}$ MIC	0.125	4	0.25	2
TZ ₆₀ - $\frac{1}{2}$ MIC	0.125	4	0.25	2
TZ ₆₀ - $\frac{1}{4}$ MIC	0.125	4	0.25	2
TZ ₁₂₀ - $\frac{1}{2}$ MIC	0.125	4	0.25	2
TZ ₁₂₀ - $\frac{1}{4}$ MIC	0.125	4	0.25	2
TZ ₁₈₀ - $\frac{1}{2}$ MIC	0.125	4	0.25	2
TZ ₁₈₀ - $\frac{1}{4}$ MIC	0.125	4	0.25	2
TZ ₂₄₀ - $\frac{1}{2}$ MIC	0.125	4	0.25	2
TZ ₂₄₀ - $\frac{1}{4}$ MIC	0.125	4	0.25	2