**Appendix. Detailed search methodology of selected databases for initial identification of studies for the pharmacological prevention of noise-induced hearing loss.**

PubMed search strategy:

(“Hearing Loss, Noise-Induced/prevention and control”[Mesh] OR “Auditory Threshold/drug effects”[Mesh] OR “noise-induced” OR “music-induced” OR “acoustic trauma” OR “noise trauma” OR “impulse noise”) AND (prevent\* OR prevention OR prophylactic OR prophylaxis OR protect\* OR prestimulatory) AND (pharmacological OR antioxidants OR acetylcysteine OR “N-acetyl-cysteine” OR N-acetylcysteine OR NAC OR ginseng OR “Vitamin E” OR carbogen OR “Src inhibitors” OR ebselen OR “Thioctic Acid”[Mesh] OR “alpha-lipoic acid” OR magnesium OR cyanocobalamin OR “Vitamin B 12”[Mesh] OR “vitamin B12”)

• Filters/limits: none

• Number of records identified: 547

Scopus search strategy:

(“Auditory Threshold” OR “noise-induced” OR “music-induced” OR “acoustic trauma” OR “noise trauma” OR “impulse noise”) AND (prevent\* OR prophyla\* OR protect\* OR prestimulatory) AND (pharmacologic\* OR antioxidants OR acetylcysteine OR “N-acetyl-cysteine” OR N-acetylcysteine OR NAC OR ginseng OR “Vitamin E” OR carbogen OR “Src inhibitors” OR ebselen OR “Thioctic Acid” OR “alpha-lipoic acid” OR magnesium OR cyanocobalamin OR “Vitamin B 12” OR “vitamin B12”)

• Filters/limits: none

• Number of records identified: 398

Cochrane Database of Systematic Reviews search strategy:

Noise-induced hearing loss

• Filters/limits: none

• Number of records identified: 4

ClinicalTrials.gov search strategy:

Noise-induced hearing loss

• Filters/limits: recruitment status: completed

• Number of records identified: 13

TOTAL number of records identified through database searching: 962

Number of additional records identified through other sources\*: 0

\* (references, times cited, handsearching, Google Scholar, etc.)

Number of records after duplicates removed: 637