CLAIMS

What is claimed is:

1. An ingestible product comprising nicotine, and at least one of (a) isothiocyanate or an isothiocyanate precursor, (b) myrosinase, and (c) resveratrol.

2. The ingestible product of claim 1, formulated as one of the following: a smokeless tobacco, a chewing tobacco, a snuff, a snus, a dissolvable tobacco, a cigarette, a twist, a cigar, and a cigarillo.

3. The ingestible product of any one of claims 1 to 2, further comprising powdered tobacco leaf as a source of the nicotine.

4. The ingestible product of any one of claims 1 to 3, further comprising a tobacco leaf extract as a source of the nicotine.

5. The ingestible product of any one of claims 1 to 4, further comprising at least one of water cress, water cress extract, garden cress, and garden cress extract as a source of the isothiocyanate
precursor.

6. The ingestible product of any one of claims 1 to 5, wherein the isothiocyanate is synthetic (Phenethyl Isothiocyanate or Allyl Isothiocyanate).

7. The ingestible product of any one of claims 1 to 6, further comprising at least one of mustard seed and mustard seed extract as a source of the myrosinase.

8. The ingestible product of any one of claims 1 to 7, further comprising thymoquinone.

9. The ingestible product of any one of claims 1 to 8, further comprising a black cumin seed extract.

10. The ingestible product of any one of claims 1 to 9, further comprising a synthetic vitamin C.

11. The ingestible product of any one of claims 1 to 10, further comprising the resveratrol.

12. The ingestible product of any one of claims 1 to 11, comprising the nicotine, and each of (a) the isothiocyanate or an isothiocyanate precursor, (b) the myrosinase, and (c) the resveratrol.

13. The ingestible product of any one of claims 1 to 12, comprising:

at least one of powdered tobacco leaf and a tobacco leaf extract as a source of the nicotine;

at least one of water cress, water cress extract, garden cress, and garden cress extract as a source of the isothiocsyanate precursor; and

mustard seed extract as a source of the myrosinase.

14. The ingestible product of claim 13, further comprising a synthetic isothiocyanate

15. The ingestible product of claim 13, further comprising thymoquinone.

16. The ingestible product of claim 13, further comprising synthetic vitamin C.

17. The ingestible product of claim 13, further comprising resveratrol.

18. The ingestible product of claim 13, further comprising thymoquinone, resveratrol and a synthetic vitamin C.

19. The ingestible product of any one of claims 1 to 18, wherein at least one of the nicotine and the isothiocyanate precursor, synthetic isothiocyanate is encapsulated.

20. The ingestible product of any one of claims 1 to 19, wherein the isothiocyanate precursor and synthetic isothiocyanate is encapsulated in at least one of micelles and nano-particles.

21. The ingestible product of any one of claims 1 to 20, wherein at least some of the isothiocyanate and precursor and synthetic isothiocyanate is in direct contact with at least one of powdered tobacco leaf and a tobacco leaf extract.

22. The ingestible product of any one of claims 1 to 21, wherein the ingestible product includes a filter.

23. An ingestible product as claimed in any one of claims 1 to 22, for use in the prevention or treatment of cancer in a population.