

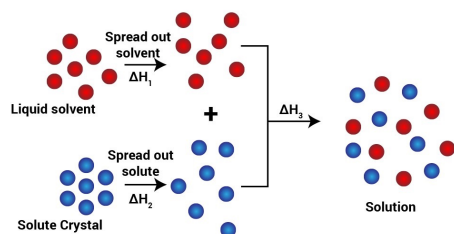
For more information on this product, contact [biomedpharmawustl@gmail.com](mailto:biomedpharmawustl@gmail.com)

# Nicotine Cleanser: Guilt Free Consumption

Erase and counteract the negative effects of nicotine

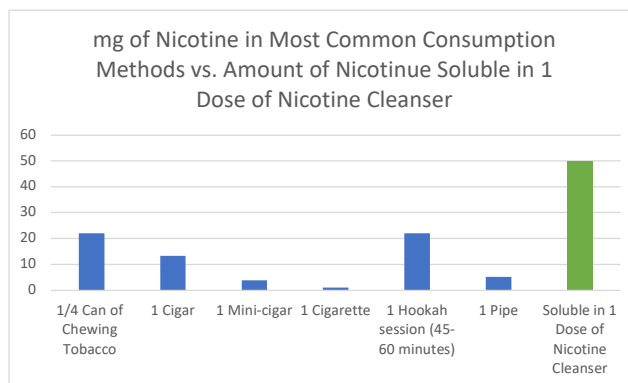
## How does it work?

Nicotine is soluble in *Nicotine Cleanser*; in other words, **Nicotine Cleanser dilutes nicotine**.<sup>1</sup> Solubility is the ability of a chemical substance to dissolve into a solvent.<sup>2</sup> Diluted substances are those in which the amount of solute in the solvent is very low.<sup>3</sup> See Figure 1 for a visual representation. Research from the National Center for Biotechnology Information has found that this product dilutes 1 mg of nicotine for each 1mL.<sup>6</sup> The 50mL serving accounts for 50 mg of nicotine.



<https://www.toopir.com/ask/en-af/content/story/amp/solubility-solid-in-liquid-73727/>

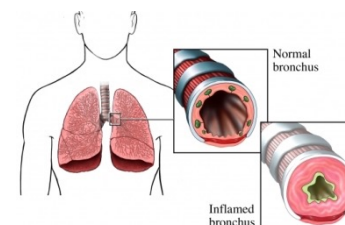
**Figure 1:** The left figure illustrates how the dilution/solvation process occurs on a basic molecular level. In more diluted solutions there would be more solvent present (red dots).



**Figure 2:** As this graph shows, 1 dose of Nicotine Cleanser is effective in solvating nearly double the amount of nicotine in popular consumption forms.<sup>7</sup>

## Why Care?

Nicotine smoking has long been ridiculed for its harmful side effects. Studies show that cigarettes cause respiratory irritation, cardiovascular disorders, cell proliferation, DNA mutations that lead to cancer, and many more harmful diseases due to its high nicotine concentration.<sup>4</sup> *Nicotine Cleanser's* purpose is to reduce the saturation of this harmful substance.



**Figure 3:** The illustration to the left shows one of the serious effects of inhalation of nicotine: inflamed bronchioles due to the irritation to the tissue from smoke and tobacco.

In addition to diluting nicotine, Dr. Michael Fernando of the US National Library of Medicine found *Nicotine Cleanser* to "improve all-cause mortality, diabetes, and cardiovascular disease."<sup>5</sup>