

THE SCIENCE OF **SOMETHING BETTER**

When somebody smokes, they inhale thousands of chemicals. Around a hundred, referred to as Harmful and Potentially Harmful Chemicals (HPHCs), have been classified by public health experts as causes or potential causes of smoking-related disease

Our goal is to offer adult smokers a range of satisfying products that provide a reduced-harm alternative Our latest wave of preclinical research continues to suggest that *my*blu vapes have the potential to do just that



THE RESEARCH

myblu¹ underwent four pre-clinical tests with the results² published in a peer reviewed journal

Alongside our existing clinical studies, they strongly indicate *my*blu's harm reduction potential compared to continued smoking



Cigarette Smoke

WHAT DID WE FIND?

*my*blu vapour...

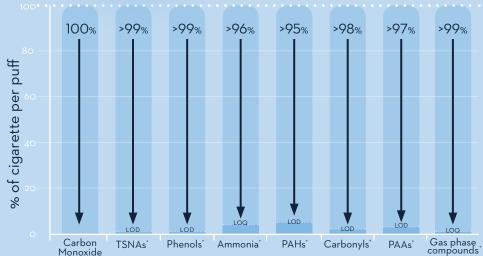
- Is chemically simple compared to cigarette smoke
- Demonstrates drastic reductions in the levels of toxicants compared to those in cigarettes
- Shows substantially less toxicity in vitro compared to cigarettes due to much fewer harmful chemicals in its composition



Many of the harmful chemicals in cigarette smoke were reduced by 99% in *my*blu vapour*

- As well as a >99%* total reduction³ in 20 HPHCs identified by the US Food and Drugs Administration (FDA)
- This drastic drop in toxicants was

 because none were present in levels
 high enough to be measured*
- Of all the analytes, only water, nicotine
 and e-liquid aerosol droplets (ACM**)
 were found in observable levels

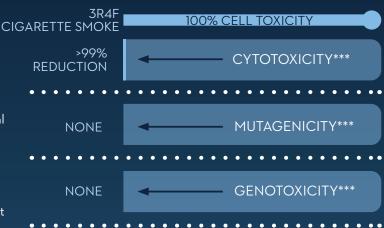


*my*blu: less toxicants = reduced cell toxicity

Three recognised regulatory methods then tested the cytotoxicity, mutagenicity and genotoxicity of both *my*blu vapour and cigarettes

These three processes can cause problems in a biological system. That's why we test for these toxicities as part of the Biological component in our Scientific Assessment

As well as a **99% reduction in cytotoxicity**, *my*blu vapour demonstrated no genotoxicity or mutagenicity under test conditions - with results comparable to the air control⁴



Cytotoxic = Causes cell damage and inhibits cell growth Mutagenic = Results in DNA mutation above a normal level Genotoxic = Causes genetic damage



OUR FINDINGS

- myblu vapour contains up to 99%³ fewer harmful chemicals than cigarette smoke, resulting in dramatic reductions in cell toxicity - up to 99% in terms of cytotoxicity⁵
- These results help pave way for further pre-clinical studies, giving the confidence to move forward to clinical assessment with adult smokers

Crucially, this research continues to build our belief that **blu** offers a potentially less harmful alternative for adults who would otherwise continue to smoke



THE "VAPE DEBATE"

An increasing body of science supports vaping's dramatic tobacco harm reduction (THR) potential

Vapes, alongside other NGPs, can potentially play a significant role in global public health strategies

To succeed, these products must be supported by appropriate legislative frameworks

Growing numbers of regulators, public health agencies and advocates agree⁶

WE URGE THE WORLD'S MEDIA, PUBLIC HEALTH BODIES AND REGULATORS WHO ARE STILL UNCONVINCED, TO CONSIDER THE EVER-GROWING BODY OF SCIENTIFIC EVIDENCE SUBSTANTIATING NGPS

Read more at www.imperialbrandsscier



