

## ATRAMENTOCEN

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### **ABSTRACT:**

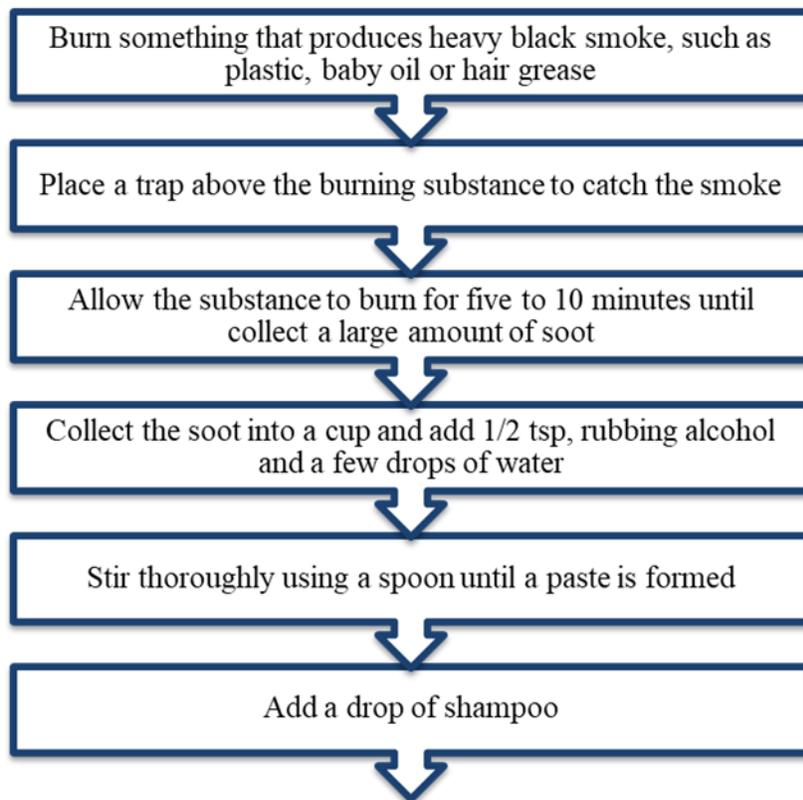
Nowadays, the issue of air pollution has become one of the most conspicuous problems in Malaysia. This problem causes health problems, global warming and also haze. Therefore, with the advent of technology, one innovation to combat the issue has been formulated and innovated, that is an ink, made from air pollution in a way that it doesn't reach our lungs directly. This innovation is specifically invented to improve mankind's health as well as to reduce the rate of air pollution from heavy burning and global warming. To be specific, this innovation has been scientifically transformed the pollution into a safe, high quality ink and rested as beautiful everlasting art. The long term objective is to reduce the rate of pollution related-illness and also to prevent the carbon emitted from the tailpipes from ending up in the atmosphere. Besides, the preparation of this innovation is very minimal due to the easy access of materials and apparatus. In terms of modification, scented and organic substances, for instance, coffee or fruits are assimilated to stimulate therapeutic and pleasant smell for various consumers from education and performing arts sectors.

**Keywords:** Air pollution, ink, carbon soot, arts, health

### **INTRODUCTION**

The World Health Organization (WHO) in 2014, labelled air pollution the “single largest environment and human health threat” (Stein, 2017). With particulate matter and toxic pollutants accounting for 6.5 million deaths annually, almost every countries in the world are looking for solutions to end this problem. Hence, Atramentocen was formulated and invented to address this alarming issue. Atramentocen is an ink produced entirely out of air pollution. Soot is the major by-product of the burning fossil fuel and has been subjected to almost 300,000 asthma attacks and lost workdays related to respiratory problems. After capturing carbon soot from air pollution, the researchers then repurposed pollutants into tools for art purposes (Joshi, 2016). By innovating this masterpiece of Atramentocen, thorough formulation and testing have been conducted to support the environmentalists specifically in art, science, recycling and environment. Therefore, the long term objective is to reduce the rate of pollution related-illness and also to prevent the carbon emitted from the tailpipes from ending up in the atmosphere. By cleaning the environment, we can reduce the rates of lung cancer gradually. When it is converted into something that is useful, pollution can thus be vividly seen as a ‘black gold’.

## METHODS



## RESULTS AND DISCUSSIONS

From the above mentioned steps, the potentially substance that may produce heavy black smoke is burned into soot and finally turns into scented ink. In preparation of this ink, it cannot be too diluted and the addition of ethanol depends on the amount of soot collected. If shampoo is not sufficient to thicken the ink, egg yolk is added to make the mixture becomes more concentrated. After the production of ink is completed, it is needed to be kept in a refrigerator to prolong the shelf life. In addition, a testimony has been made to test the effectiveness and efficiency of the product. Next, the ink can be used to refill an empty marker pen. The marker pen with the formulated ink was tested on the white board. The result was positive and it showed that the ink is erasable.

## CONCLUSION

As a conclusion, this innovation of Atramentocen is hoped to benefit the earth and mankind as it offers an alternative ink that can reduce the air pollution by collecting a large amount of black carbon soot which harms the environment (Walker, 2013) and health. Other than time saving, the product is also inexpensive and affordable since the materials are easily accessible at our home and surrounding. As for the recommendations, various ink colors with scented fragrance will be produced to complete the color scheme. In short, it is hoped that this product can be recognised and accepted as it can save our nature as well as the earth.

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