

# MM-1<sup>®</sup>

Massa Nicollet<sup>®</sup>

Photocatalyst with Copper  $Cu^{2+}$  Silver  $Ag^{+}$   
Effective even against COVID-19



# What is MN-1<sup>®</sup> ✂ Patented

The world's first technology with the addition of nano-titanium oxide, copper ions, and silver ions. By combining this "copper ion" and "photocatalyst", it exerts 1000 times more sterilizing power than copper alone, and it is expected to be active in a wide range of fields such as infectious disease control.

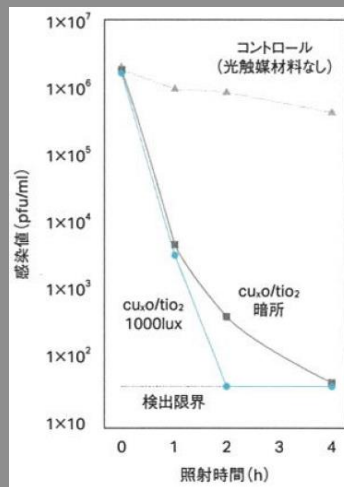
## Data

### Confirmed inactivation of COVID-19 by copper x photocatalyst

When copper contacts with moisture in the air, copper ions are eluted and exert a bactericidal action. The copper oxide-added photocatalyst used by Tokyo Institute of Technology in the experiment of the new coronavirus elutes copper ions, and it takes about 1 hour to reach the copper ion concentration required for sterilization.

Our "MN-1" kills bacteria almost instantly.

The reason is that the copper ion concentration of "MN-1" is more than double that of the naturally occurring copper ion concentration. Since the high concentration of copper ions is applied directly, it sterilizes instantly.



By irradiating with light, the amount of virus with an infection value of 2.5 digits decreases in 1 hour. And the effect is exhibited even in the dark.

From this, the COVID-19 can be inactivated by using a copper added photocatalyst.

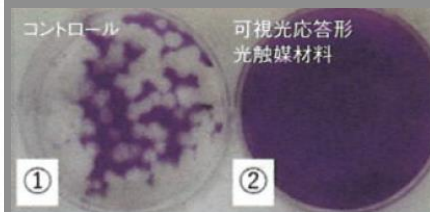


Photo ① : COVID-19 infects cells and the destroyed area appears white. (Not inactivated virus)

Photo ② : No destruction by COVID-19 is seen. (The virus is inactivated)

COVID-19 99.995% Inactive

## Power of MN-1

Remove viruses and bacteria with the power of photocatalyst x copper.

All places such as medical sites, food factories, and manufacturing sites can be used. Unlike a simple photocatalyst, the copper component improves the bacterial removal rate, resulting in a bacterial removal rate of 99.9%.



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## Installation references

