



# HYDROGEN GENERATOR

Konsentrasi Hidrogen  
Kepadatan Tinggi

Dalam **5 menit**

600 - 1500 PPB



1500 mAh 3-4 Jam 15+ cangkir Tanpa Ozon



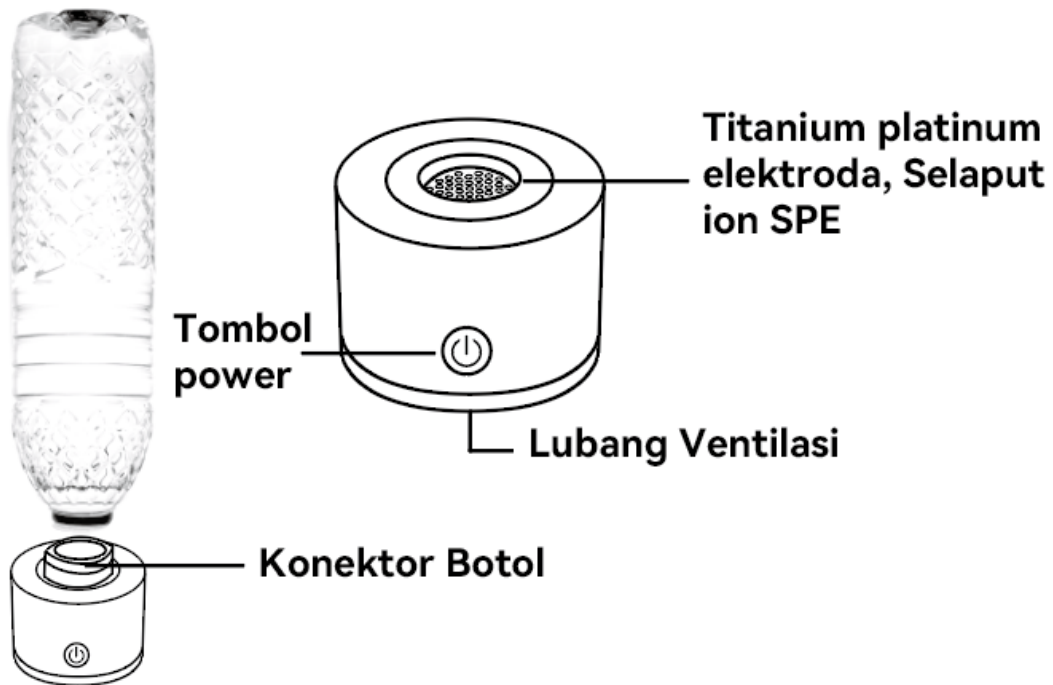
## APA HYDROGEN GENERATOR ?

**MGICLUB portable hydrogen water generator** MGICLUB portable hydrogen water generator adalah sebuah alat yang menghasilkan air kaya hidrogen dengan cara elektrolisis air. Proses elektrolisis digunakan untuk memisahkan molekul air menjadi gas hidrogen ( $H_2$ ) dan oksigen ( $O_2$ ). Gas hidrogen yang dihasilkan kemudian larut dalam air, menciptakan larutan yang kaya akan hidrogen molekuler.

Ketika pasokan listrik dihidupkan, arus listrik akan melewati elektroda yang terbuat dari platinum murni dan titanium, dengan teknologi membran ion SPE yang diimpor.

Elektroda terpisah oleh membran elektrolit polimer padat, yang hanya memungkinkan ion hidrogen positif ( $H^+$ ) untuk melewati sementara ion oksigen negatif ( $O^-$ ) diblokir. Akibatnya, gas hidrogen dihasilkan di katode (elektroda negatif) dan gas oksigen dihasilkan di anode (elektroda positif).

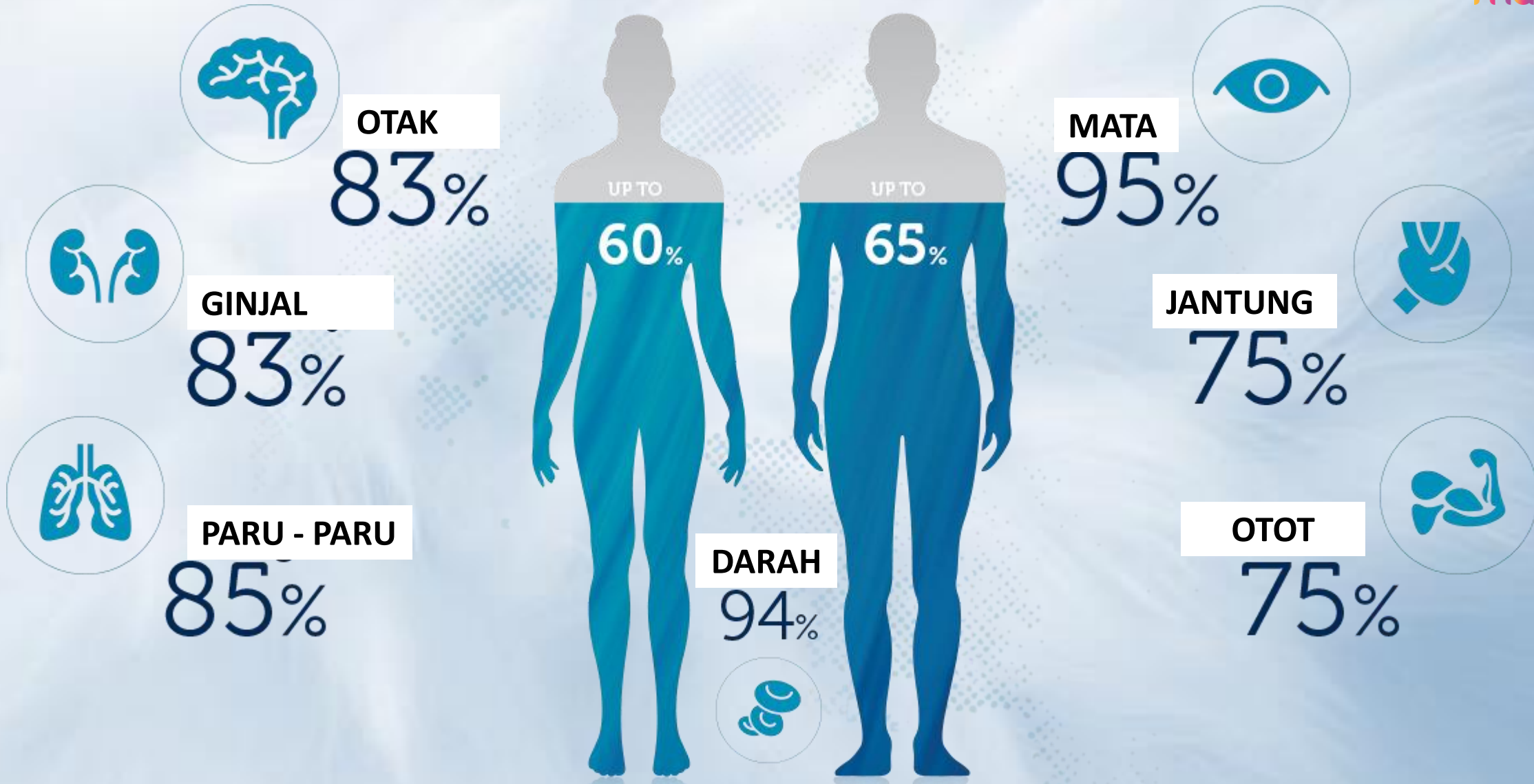
## APA ITU HYDROGEN GENERATOR ?



Gas hidrogen yang dihasilkan kemudian larut dalam air, meningkatkan konsentrasinya.

\*Air hidrogen yang dihasilkan oleh produk ini memiliki konsentrasi molekul hidrogen yang tinggi dan TIDAK ADA kandungan OZON.

# MENGAPA MANUSIA HARUS MINUM MINIMAL 2 LITER AIR SETIAP HARI ?



# BAGAIMANA CARA MENGGUNAKAN HYDROGEN GENERATOR ?



## Untuk menghasilkan air hidrogen:

Anda dapat membeli air mineral atau air minum dari pasar dan menghubungkannya ke generator (compatible dengan sebagian besar botol air mineral). Suhu air dapat antara 0-100°C.

## - Mode air hidrogen:

Tekan tombol daya, lampu biru pada generator akan tetap menyala selama sekitar 5 menit. Ketika generator mengeluarkan suara "beep beep", produksi hidrogen selesai. Buka generator dan minum langsung.  
(Konsumsi dalam waktu setengah jam)

## - Mode penyerapan hidrogen:

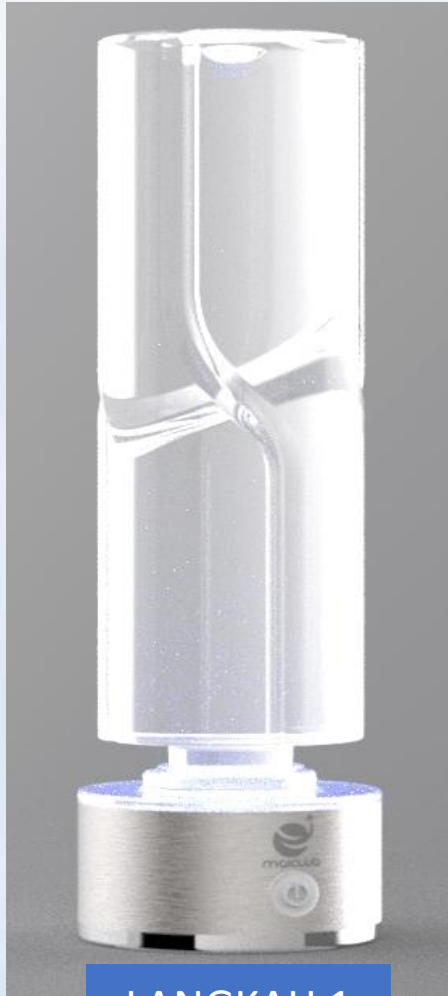
Pertama-tama, masukkan jumlah air yang sesuai (air murni, air mineral, air matang) ke dalam generator, lalu pasang port koneksi hidrogen dan sambungkan dengan tabung koneksi oksigen. Tekan lama tombol 'on', dan generator akan mulai (lampu biru berkedip). Ini membuktikan bahwa ini adalah mode penyerapan hidrogen, dengan durasi default 30 menit. Jika Anda perlu berhenti secara mendadak, Anda bisa langsung mematikan daya.

Selama penggunaan, jika lampu LED mesin utama berkedip merah, itu berarti baterai sedang lemah dan perlu segera diisi ulang.





# BAGAIMANA CARA MENGGUNAKAN HYDROGEN GENERATOR ?



**LANGKAH 1**

Hubungkan leher botol ke Generator



**LANGKAH 2**

Tekan tombol daya, lampu biru generator akan menyala selama sekitar 5 menit.



**LANGKAH 3**

Buka tutup generatornya dan langsung minum

# 1 GELAS AIR HIDROGEN MEMILIKI ANTIOXIDANT SEBESAR :



64 Apel



94 Pisang



38 Wortel



5kg brokoli



5 ikat Bayam



16 Tablet Vitamin C



30 Gelas Teh hijau



2 kg Berry Biru



# 1.5L AIR HIDROGEN PER HARI EFEKTIF MEMBANTU METABOLISME TUBUH

1.5L air hydrogen  
Sama dengan



45 Kubis



50 Wortel



550 Apel



780 Pisang



## **MANFAAT PRODUK**

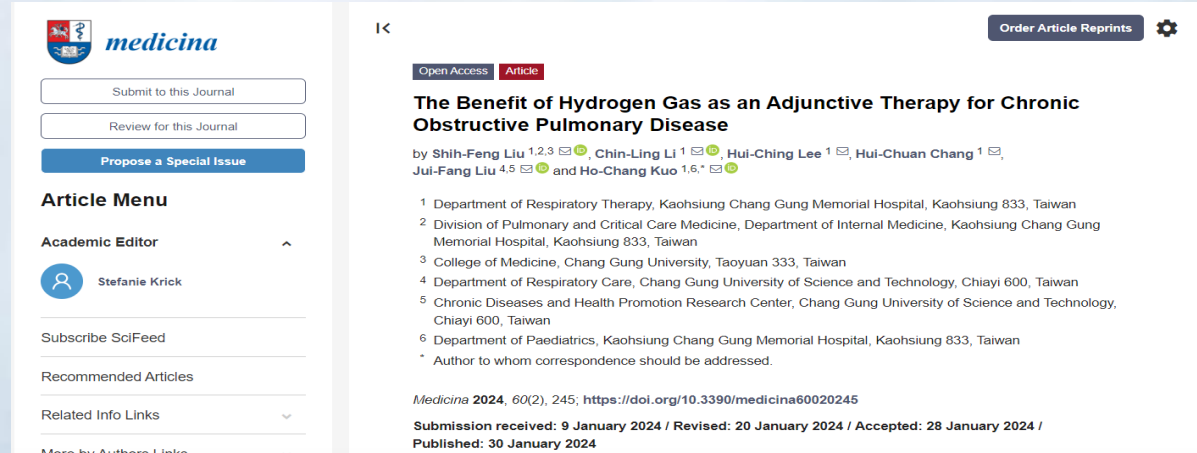
- 1. Anti-inflamasi**
- 2. Membantu meringkankan gejala penyakit kronis**
- 3. Aksi antioksidan**
- 4. Meningkatkan tingkat energi**
- 5. Meningkatkan performa atletik**
- 6. Mendukung penurunan berat badan**
- 7. Anti-alergi**
- 8. Kulit bersih & sendi kuat**
- 9. Meningkatkan kualitas tidur**
- 10. Membantu mengurangi kolesterol**
- 11. Meningkatkan fungsi pencernaan**
- 12. Cocok untuk semua usia**





# MENGHIRUP HIDROGEN (INHALING HYDROGEN)

Berdasarkan Penelitian di mdpi.com manfaat menghirup hidrogen :



The screenshot shows the article page for "The Benefit of Hydrogen Gas as an Adjunctive Therapy for Chronic Obstructive Pulmonary Disease" in the journal Medicina. The article is by Shih-Feng Liu, Chin-Ling Li, Hui-Ching Lee, Jui-Fang Liu, and Ho-Chang Kuo. It is an open access article published in January 2024. The page includes a sidebar with journal navigation options and a main content area with the article title, authors, affiliations, and submission details.

Terapi gas hidrogen telah diteliti potensinya untuk mengurangi peradangan, stres oksidatif, dan kerusakan jaringan di paru-paru.

Dengan mengurangi stres oksidatif dan peradangan, terapi hidrogen dapat membantu melindungi jaringan paru-paru dan berpotensi memperlambat perkembangan COPD (*chronic obstructive pulmonary disease*) Terapi hidrogen menjanjikan sebagai pengobatan tambahan yang potensial untuk COPD karena sifat antioksidan dan anti-inflamasinya. Terapinya menunjukkan perbaikan gejala pada pasien COPD tertentu. Namun, dalam penelitian kami, tidak ada perbedaan yang signifikan dalam penanda peradangan, indeks oksidasi, indeks antioksidan, dan fungsi paru-paru setelah satu bulan penggunaan.





## Molecular Hydrogen Therapy For Management Of COVID-19

### INTRODUCTION

Molecular hydrogen ( $H_2$ ) has been proposed to have therapeutic and preventive effects for variety of diseases. Its applications range from acute illness such as ischaemia–reperfusion injury, shock and damage healing to chronic illness such as metabolic syndrome, rheumatoid arthritis and neurodegenerative diseases.<sup>1</sup> There is a growing evidence obtained by animal model experiments on molecular hydrogen ( $H_2$ ) as antioxidant, anti-inflammatory, antiapoptotic and antiallergic.<sup>2-9</sup> The claimed benefits were demonstrated through various delivery methods including drinking  $H_2$  rich water, intra-peritoneal injection, infusion of  $H_2$ -rich saline, taking an  $H_2$  bath, dropping  $H_2$ -saline onto the eyes and inhalation.(Table 1)<sup>5, 6, 10-15</sup> However, inhalation of hydrogen gas has been established as the easiest and simplest route of administration. It also allows monitoring of the dose of hydrogen. As a biological gas, hydrogen has the ability to diffuse freely across biological membranes, acting in various functional capacities.<sup>16, 17</sup>

**Table 1:** *In vivo*  $H_2$  delivery systems<sup>14, 15</sup>

Administration	Preparation/delivery method	Characteristics	Examples
Inhalation	Inhale gas mixture containing $H_2$ ( $\leq 4\%$ )	1)Rapid action, straightforward delivery 2)Does not influence blood physiological parameters (temperature, blood pressure, pH, $pO_2$ ) 3)Suitable to defense against acute oxidative stress 4)Unpractical to dose continuously	 Inhalation  Aerosol inhalation

Penelitian tentang hidrogen untuk pengelolaan COVID 19 oleh Kementerian Kesehatan Malaysia

## Hydrogen Therapy and Its Future Prospects for Ameliorating COVID-19: Clinical Applications, Efficacy, and Modality

Ishrat Perveen,<sup>1</sup> Bakhtawar Bukhari,<sup>1</sup> Mahwish Najeeb,<sup>2</sup> Sumbal Nazir,<sup>3</sup> Tallat Anwar Faridi,<sup>2</sup> Muhammad Farooq,<sup>1</sup> Qurat-ul-Ain Ahmad,<sup>4</sup> Manal Abdel Haleem A. Abusalah,<sup>5</sup> Thana' Y. ALjaraedah,<sup>6</sup> Wesal Yousef Alraei,<sup>6</sup> Ali A. Rabaan,<sup>7</sup> Kirnpal Kaur Banga Singh,<sup>5,\*</sup> and Mai Abdel Haleem A. Abusalah<sup>8,\*</sup>

Shaker A. Mousa, Academic Editor and Juan Gambini, Academic Editor

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### Abstract

Go to: ►

Molecular hydrogen is renowned as an odorless and colorless gas. The recommendations developed by China suggest that the inhalation of hydrogen molecules is currently advised in COVID-19 pneumonia treatment. The therapeutic effects of molecular hydrogens have been confirmed after numerous clinical trials and animal-model-based experiments, which have expounded that the low molecular weight of hydrogen enables it to easily diffuse and permeate through the cell membranes to produce a variety of biological impacts. A wide range of both chronic and acute inflammatory diseases, which may include sepsis, pancreatitis, respiratory disorders, autoimmune diseases, ischemia-reperfusion damages, etc. may be treated and prevented by using it.  $H_2$  can primarily be inoculated through inhalation, by drinking water (which already contains  $H_2$ ), or by administering the injection of saline  $H_2$  in the body. It may play a pivotal role as an antioxidant, in regulating the immune system, in anti-inflammatory activities (mitochondrial energy metabolism), and cell death (apoptosis, pyroptosis, and autophagy) by reducing the formation of excessive reactive  $O_2$  species and modifying the transcription factors in the nuclei of the cells. However, the fundamental process of molecular hydrogen is still not entirely understood. Molecular hydrogen  $H_2$  has a promising future in therapeutics based on its safety and possible usefulness. The current review emphasizes the antioxidative, anti-apoptotic, and anti-inflammatory effects of hydrogen molecules along with

Penelitian tentang hidrogen untuk penanganan COVID 19 oleh National Library Of Medicine USA <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10377251/>





# MANFAAT INHALING HYDROGEN



## **\*Efek Antioksidan dan Anti-inflamasi:\***

- Hidrogen memiliki sifat antioksidan dan anti-inflamasi yang kuat.
- Dapat membantu mengurangi stres oksidatif dan peradangan di seluruh tubuh.

## **\*Perlindungan saraf:\***

- Hidrogen dapat melindungi sel-sel otak dari kerusakan akibat stres oksidatif dan peradangan.
- Ini mungkin memiliki manfaat potensial pada penyakit neurodegeneratif seperti Alzheimer dan Parkinson.

## **\*Kesehatan jantung (kardiovaskular):\***

- Hidrogen dapat meningkatkan aliran darah dengan mengurangi stres oksidatif dan peradangan pembuluh darah.
- Ini dapat membantu melindungi terhadap penyakit jantung dan stroke.

## **\* Kesehatan Metabolik:\***

- Hidrogen dapat meningkatkan sensitivitas insulin dan menurunkan kadar glukosa.
- memiliki manfaat potensial pada diabetes tipe 2.

## **\* Pemulihan Latihan:\***

- Hidrogen dapat mempercepat pemulihan setelah olahraga berat
- Dapat mengurangi nyeri otot, kelelahan, dan stres oksidatif.



# MANFAAT INHALING HYDROGEN



## **\*Modulasi Kekebalan Tubuh:\***

- Hidrogen dapat memodulasi sistem kekebalan tubuh, mengurangi peradangan dan meningkatkan fungsi kekebalan tubuh.

## **\*Kesehatan Kulit:\***

- Hidrogen dapat meningkatkan hidrasi kulit, mengurangi kerutan, dan melindungi kulit dari kerusakan akibat radiasi sinar UV.

## **\* Efek Anti Penuaan:\***

- Sifat antioksidan dan anti-inflamasi hidrogen dapat berkontribusi terhadap efek anti-penuaan dengan mengurangi kerusakan oksidatif dan peradangan.

## **\*Potensi Manfaat Lainnya:\***

- Mengurangi rasa sakit dan bengkak
- Meningkatkan kualitas tidur
- Mengurangi gejala alergi dan asma
- Meningkatkan mood dan kesadaran





# **BAGAIMANA HYDROGEN INHALATION BEKERJA**

**Ketika gas hidrogen dihirup, ia berdifusi ke dalam aliran darah dan jaringan. Gas kemudian bereaksi dengan radikal bebas, yaitu molekul tidak stabil yang dapat merusak sel dan DNA.**

**Hidrogen menetralkan radikal bebas ini, mengurangi stres oksidatif. Hidrogen juga memiliki efek anti-inflamasi. Ini dapat menghambat produksi sitokin inflamasi dan meningkatkan produksi sitokin anti-inflamasi. Sehingga membantu mengurangi peradangan di seluruh tubuh.**

# HYDROGEN GENERATOR TEST REPORT



Page 1 of 47

## EMC Test Report

Report No.: AGC15789240101EE01

**PRODUCT DESIGNATION** : Portable hydrogen generator  
**BRAND NAME** : MGI  
**MODEL NAME** : MGI 078  
**APPLICANT** : MEGA GLORYOUNG INTERNATIONAL CORP  
**DATE OF ISSUE** : Jan. 25, 2024  
**STANDARD(S)** : EN IEC 55014-1:2021  
 EN IEC 55014-2:2021  
 EN IEC 61000-3-2:2019/A1:2021  
 EN 61000-3-3:2013/A2:2021  
**REPORT VERSION** : V1.0



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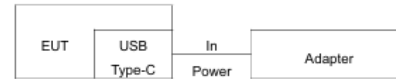
Report No.: AGC15789240101EE01  
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## 2. Description of Test Configuration

### 2.1. Technical Description of Product

Categorization of Equipment	Class II equipment
Test arrangements of EUT	Table-top
Hardware Version	N/A
Software Version	N/A
Highest Internal Frequency	Less than 108MHz
EUT Input Rating	DC5V by adapter or DC3.7V by battery

### Connection Diagram of Host System



### I/O Port Information (☑ Applicable ☐ Not Applicable)

Port Type	Input/Output	Number	Cable Description
USB Type-C	In	1	--

### 2.2. Description of Support Equipment

Device Type	Manufacturer	Model Name	Specifications	Data Cable	Power Cable
Adapter	Jinbaotong	K-T10E0502000E	AC100-240V, 50-60Hz, 0.35A, DC 5V/2A	--	--

### 2.3. Description of Test Modes

No.	Test Mode Description	Worst
1	Normal operating mode + Charging	--
2	Normal operating mode	--

Note: 1. Only worst mode data recorded in the test report.

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## 3. Summary of Measurement Results and Uncertainty

### 3.1. Test Specifications

EN IEC 55014-1:2021	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
EN IEC 55014-2:2021	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard
EN IEC 61000-3-2:2019/A1:2021	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current 16 A per phase)
EN 61000-3-3:2013/A2:2021	Electromagnetic compatibility (EMC) Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection

### 3.2. Description of Measurement Results

Test items	Test Standard(s)	Verdict
Conducted emissions from the AC mains power ports	EN IEC 55014-1	Pass
Radiated emissions at frequencies up to 1 GHz	EN IEC 55014-1	Pass
Harmonic current emissions	EN IEC 61000-3-2	Pass
Voltage fluctuations and flicker	EN 61000-3-3	Pass
Electrostatic discharge	IEC 61000-4-2*	Pass
Fast transients	IEC 61000-4-4*	Pass
Surges	IEC 61000-4-5*	Pass
Radio-frequency common mode (Injected currents)	IEC 61000-4-6*	Pass
Voltage dips and interruptions	IEC 61000-4-11*	Pass

Note:  
 a. The applicable versions of the basic standards are defined in the standard which listed in the test specification.

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# HYDROGEN GENERATOR

## TEST REPORT



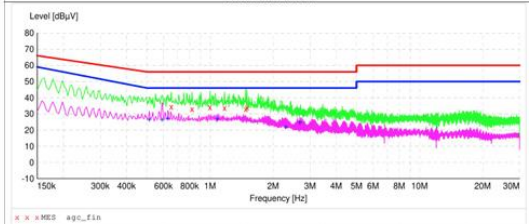
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### 5.5. Test Summary

Test Engineer	Jimu	Temperature	17.6 °C
Test Date	Jan. 23, 2024	Air Pressure	985 Mbar
Worst Mode	Mode 1	Relative Humidity	40.1 %
Verdict	Pass		

Test graph and data for Conducted Emission at line L1

Test Mode: Mode 1



Frequency[MHz]	Level[dBμV]	Factor[dB]	Limit[dBμV]	Margin[dB]	Detector	Line
0.654000	34.4	6.2	56.0	21.6	QP	L1
0.822000	33.1	6.2	56.0	22.9	QP	L1
1.002000	34.1	6.2	56.0	21.9	QP	L1
1.174000	33.7	6.2	56.0	22.3	QP	L1
1.482000	33.0	6.2	56.0	23.0	QP	L1
1.502000	33.9	6.2	56.0	22.1	QP	L1
0.514000	27.1	6.2	46.0	18.9	AV	L1
0.590000	27.1	6.2	46.0	18.9	AV	L1
0.630000	27.8	6.2	46.0	18.2	AV	L1
1.086000	27.5	6.2	46.0	18.5	AV	L1
2.306000	22.6	6.3	46.0	23.4	AV	L1
2.682000	25.3	6.3	46.0	20.7	AV	L1

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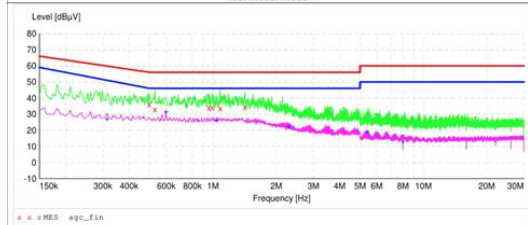
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Test graph and data for Conducted Emission at line N

Test Mode: Mode 1



Frequency[MHz]	Level[dBμV]	Factor[dB]	Limit[dBμV]	Margin[dB]	Detector	Line
0.498000	36.1	6.1	56.0	19.9	QP	N
0.530000	33.1	6.2	56.0	22.9	QP	N
0.958000	33.8	6.2	56.0	22.2	QP	N
0.994000	34.2	6.2	56.0	21.8	QP	N
1.082000	33.7	6.2	56.0	22.3	QP	N
1.418000	34.4	6.2	56.0	21.6	QP	N
0.314000	27.6	6.1	51.0	23.4	AV	N
0.598000	32.0	6.2	46.0	14.0	AV	N
1.042000	26.5	6.2	46.0	19.5	AV	N
2.290000	23.1	6.3	46.0	22.9	AV	N
5.386000	19.7	6.4	50.0	30.3	AV	N
7.986000	13.6	6.6	50.0	36.4	AV	N

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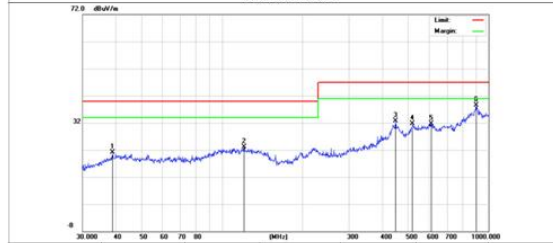
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### 6.5. Test Summary

Test Engineer	Alex	Temperature	22.8 °C
Test Date	Jan. 23, 2024	Air Pressure	985 Mbar
Worst Mode	Mode 2	Relative Humidity	58.4 %
Verdict	Pass		

Test graph and data for Radiated Emission at Horizontal

Test Mode: Mode 2



Frequency[MHz]	Level[dBμV/m]	Factor[dB]	Limit[dBμV/m]	Margin[dB]	Detector	Polarity
38.8878	21.16	13.42	40.00	18.84	peak	Horizontal
121.1231	23.15	16.33	40.00	16.85	peak	Horizontal
447.9822	32.72	24.82	47.00	14.28	peak	Horizontal
519.0649	31.62	25.05	47.00	15.38	peak	Horizontal
609.9217	31.67	25.15	47.00	15.33	peak	Horizontal
900.1474	38.58	31.78	47.00	8.42	peak	Horizontal

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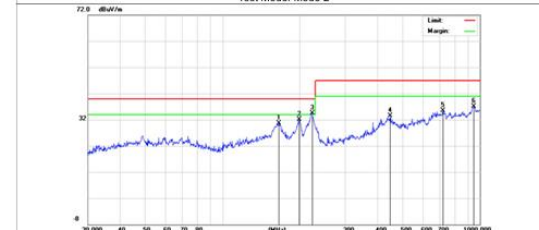
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Test graph and data for Radiated Emission at Vertical

Test Mode: Mode 2



Frequency[MHz]	Level[dBμV/m]	Factor[dB]	Limit[dBμV/m]	Margin[dB]	Detector	Polarity
165.4866	30.77	18.28	40.00	9.23	peak	Vertical
198.5879	32.13	17.94	40.00	7.87	peak	Vertical
222.9501	34.58	16.37	40.00	5.42	peak	Vertical
447.9821	33.41	25.74	47.00	13.59	peak	Vertical
719.1994	35.47	28.77	47.00	11.53	peak	Vertical
948.7609	37.05	30.65	47.00	9.95	peak	Vertical

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# HYDROGEN GENERATOR

## TEST REPORT



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### 9.5. Test Summary

Test Engineer	Sam	Temperature	18.2 °C
Test Date	Jan. 24, 2024	Air Pressure	985 Mbar
Test Mode(s)	Mode 1/2	Relative Humidity	32.3 %
Verdict	Pass		

Voltage	Coupling	Observation	Performance
±4kV	Contact Discharge	No degradation of performance	A
±2KV, ±4kV, ±8kV	Air Discharge	No degradation of performance	N/A
±4kV	Indirect Discharge HCP	No degradation of performance	A
±4kV	Indirect Discharge VCP	No degradation of performance	A

Red line: Contact discharge



Note: Air discharge point not found.

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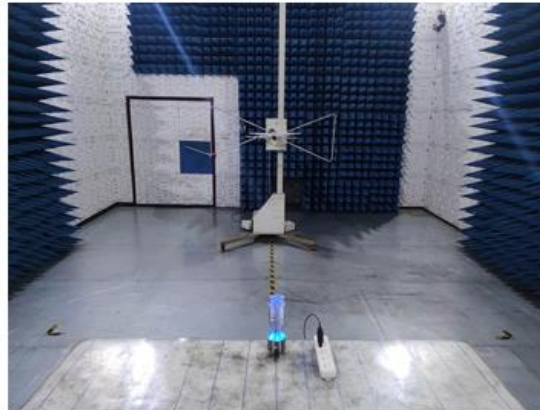


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### 14. Photographs of Test Setup



Conducted emissions from the AC mains power ports



Radiated emissions at frequencies up to 1 GHz

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Harmonic current emissions & Voltage fluctuations and flicker



Electrostatic discharge

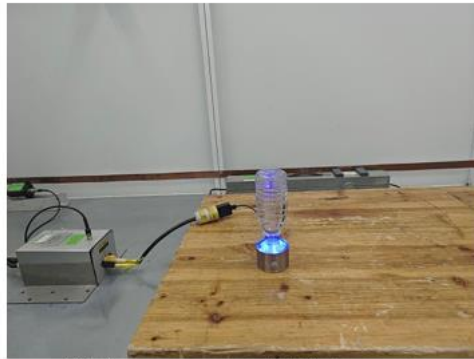
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# HYDROGEN GENERATOR

## TEST REPORT



Radio-frequency common mode at the AC mains power ports



Fast transients/Surges/ Voltage dips at the AC mains power ports

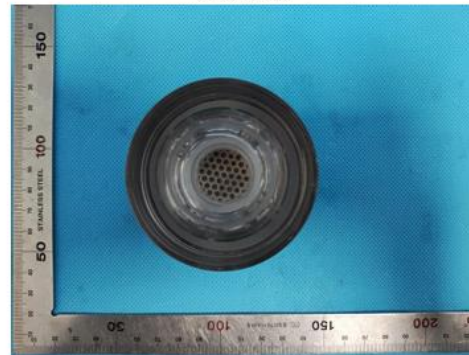
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### 15. Photographs of EUT



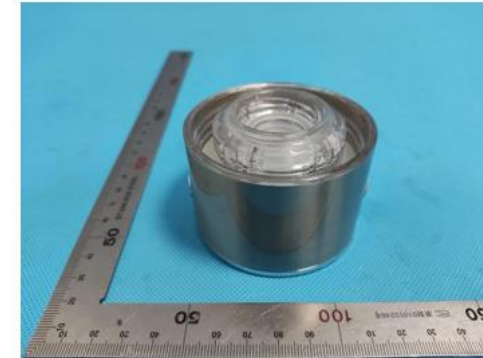
All view of EUT



Top view of EUT

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Right view of EUT



Port view of EUT

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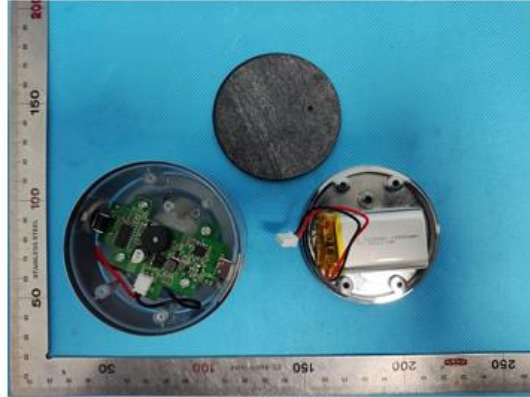
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# HYDROGEN GENERATOR

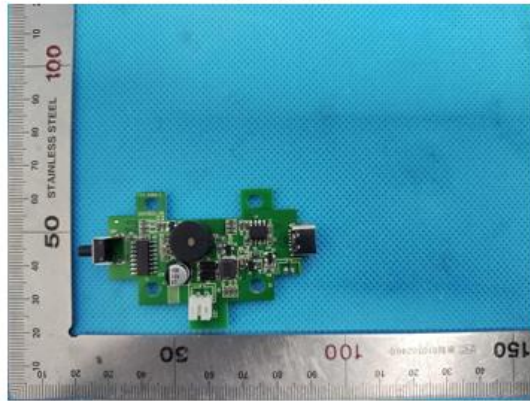
## TEST REPORT



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Open view of EUT



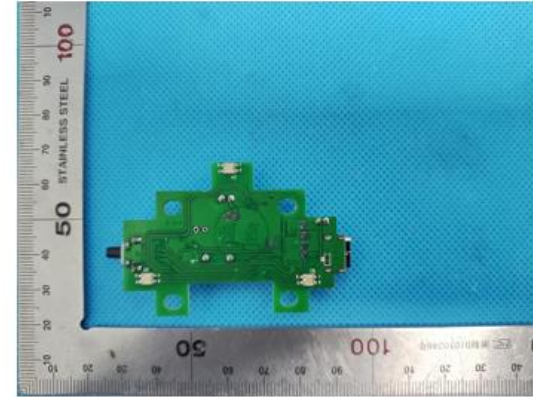
Internal view-1 of EUT

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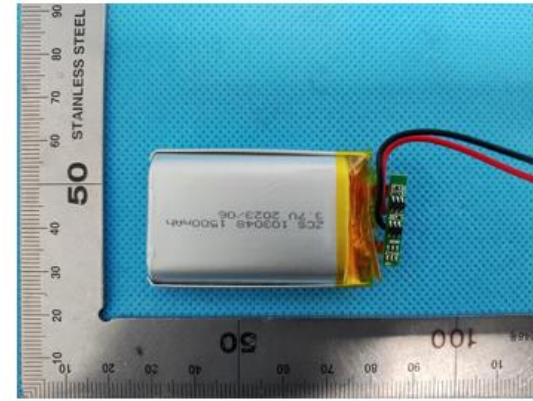
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Internal view-2 of EUT



View-1 of Battery

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# HYDROGEN GENERATOR CE CERTIFICATE



T: 0086-755-2523 4088  
E-mail: agc@agccert.com  
Web: Http://www.agccert.com  
1-2/F, Building 19, Junfeng Industrial Park  
Chongqing Road, Heping Community, Fuhai Street  
Bao'an District, Shenzhen, Guangdong, China



## Attestation of Conformity

Registration No. AGC15789240101E2

Applicant MEGA GLORYOUNG INTERNATIONAL CORP  
Rm 315, Filamco Building, Soler Street Corner Masangkay Street,  
Binondo, Manila, Philippines.

Product Designation Portable hydrogen generator

Brand Name MGI

Model / Series Models MGI 078

Requirement	Applied Standards	Document Evidence	Result
EMC Directive	EN IEC 55014-1:2021 EN IEC 55014-2:2021 EN IEC 61000-3-2:2019/A1:2021 EN 61000-3-3:2013/A2:2021	Test Report: AGC15789240101EE01	Conform



Signed by General Manager(King Zhang)  
Issue Date: March 12, 2024

This Attestation of Conformity is recognized by Attestation of Global Compliance (Shenzhen) Co., Ltd. and made in accordance with the EMC Directive 2014/30/EU. The attestation doesn't imply assessment of the production. The Applicant of the attestation is authorized to use this attestation in connection with EC declaration of conformity to the Directive. The attestation is only applicable to the equipments described above. This attestation shall not be re-produced except in full without the written approval of Attestation of Global Compliance (Shenzhen) Co., Ltd.

Note: This attestation is part of the full test report(s) and should be used in conjunction with it.



Version: 3.1



JHPA

## 製品認定登録証

MEGA GLORYOUNG INTERNATIONAL COPRN 殿

貴社より認定申請のありました「富氢水杯」の溶存水素量を確認した結果、生成直後で1,200ppbを示しました。

この値は、当協会認定基準である「生成直後で300ppb以上あること」に適合していることから、ここに水素水生成器として認定し、登録証を発行いたします。

登録番号 No.A1196

登録日 2024年6月20日

有効期限 2026年6月19日

日本水素水振興協会

理事長 田澤 賢次



# HYDROGEN GENERATOR SERTIFIKAT JHPA DARI THE HYDROGEN WATER ASSOCIATION OF JAPAN

Kami telah mengkonfirmasi kandungan hidrogen terlarut dari "Hydrogen Water Generator" yang Anda ajukan permohonan sertifikasinya.

Hasilnya menunjukkan 1.200ppb segera setelah dihasilkan. Nilai ini memenuhi standar sertifikasi asosiasi kami, yang mensyaratkan "setidaknya 300ppb segera setelah dihasilkan".

Oleh karena itu, kami dengan ini mengesahkan ini sebagai generator air hidrogen dan menerbitkan sertifikat registrasi.