



**GREEN LIFE GROUP**  
Natural ecological cleaning products



***We change the concept, We take care of the planet.***

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## Green Life Group :

- ▶ Green Life Group is a start-up company devoted to developing and marketing ecological products for home use and environmental sanitation. The cleaning and purification products which the company produces and markets are based on green bio-material which is friendly to the environment and to the individuals who use them.



## Green Life Group :

- ▶ The initial development of Green Up eco-products occurred between 2003 and 2009. In 2010-2011 the company ran a marketing pilot in Israel to determine the suitability of the products for the needs of the market. Today the company's activities include production, marketing and customer support to clients in Israel and abroad. The products are tested by regulatory agencies and copies of some of these tests and results are included with this presentation .



# Agriculture Industry

Agriculture today uses a variety of pesticides, many of which are poisonous and dangerous to human health. In light of the reforms and changes which are happening in agriculture, especially with field crops and in packing areas, there arose a need for new cleaning and disinfecting ecological products.



# Green Up F&V -The Green Solution

- ▶ Green Up F&V is superior in its ability to dissolve and remove oils in a variety of fatty acids and effectively achieve anti-bacterial cleaning of a wide range of micro-organisms including Gram positive/negative bacteria, pathogenic food related bacteria, yeasts and microscopic fungi.
- ▶ Green Up F&V is not flammable and does not emit poisonous gases or synthetic smells which are typical of chemical cleaning agents.



**Green Up F&V** provides solutions in the packing house for many operations such as fogging, drenching, cleaning and disinfecting containers and prolonging the shelf life of fruits and vegetables.



- ▶ Most of the fruit and vegetable export packing facilities in Israel use Green Up F&V.
- ▶ Examples of these are avocado, orange, mango, carrot and sweet pepper among others.
- ▶ Two new successes for the company in the last year were:
  1. Treatment and disinfection of the land and water supply.
  2. Spraying the fruits/plants during the growing period.





# Ongoing project (with the Volcani Center, Ministry of Agriculture)

## 1. Cucumber green mottle mosaic virus - CGMMV

טבלה מס' 3: השוואת יעילותם של התכשירים השונים בפרקי זמן שונים לאינאקטיבציה של הנגיף בתמיסה

30 דקות			5 דקות			1 דקה			זמן הדגרה
III	II	I	III	II	I	III	II	I	החומר הנבדק / מס' חזרה
0/3	0/3	0/3	1/3	0/3	0/3	0/3	3/3	1/3	קלורבק 2000ppm
0/3	0/3	0/3	0/3	0/3	0/3	1/3	0/3	0/3	וירקון 2%
0/3	0/3	0/3	0/3	1/3	1/3	1/3	1/3	1/3	וירוציד 1%
3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3	אבקת חלב 2%
0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	0/3	D- Green Up 20%
0/3	0/3	0/3	0/3	0/3	0/3	0/3	1/3	0/3	AB- Green Up 20%
3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3	ביקורת חיובית

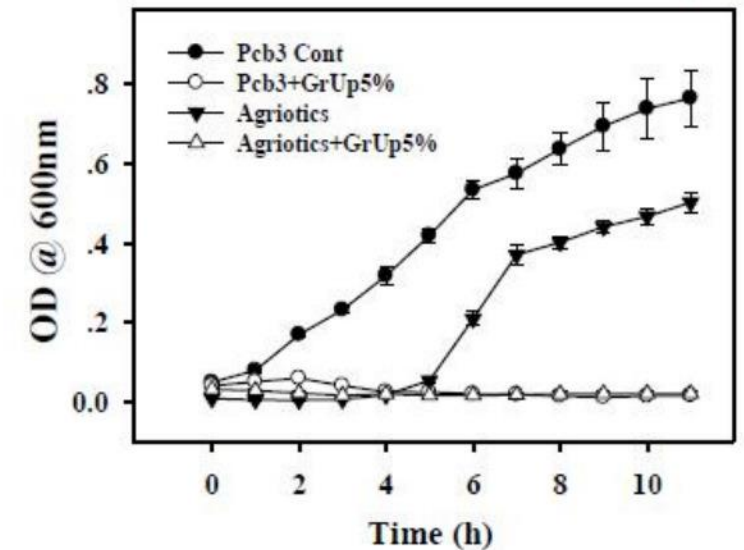
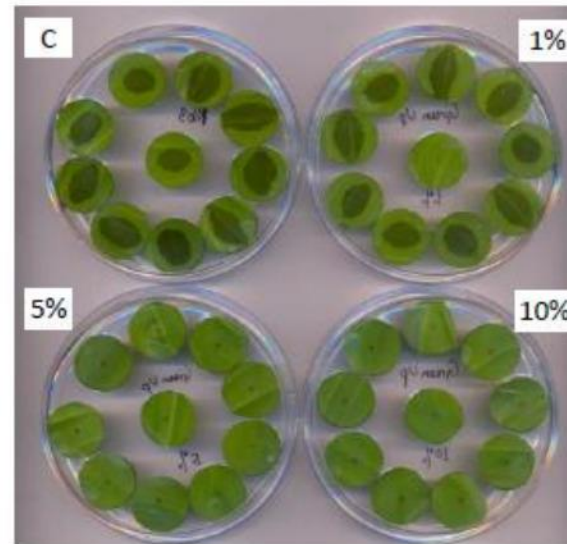


- ▶ Beneficial microorganisms for improved growth, resistance and reduced loss by pathogens in *Ornithogalum* and *Zantedeschia*.

איור 2. השפעת התכשיר Green Up קרקע: הפחתת הדבקה בדיסקיות על קאלה מאולחות בפקטובקטריום לאחר חשיפה לריכוזים עולים של GreenUp (שמאל); מבחן גידול חיידקים במבחנה בהוספת 5% Green Up, ושילוב של Green Up עם Agriotics (ימין).

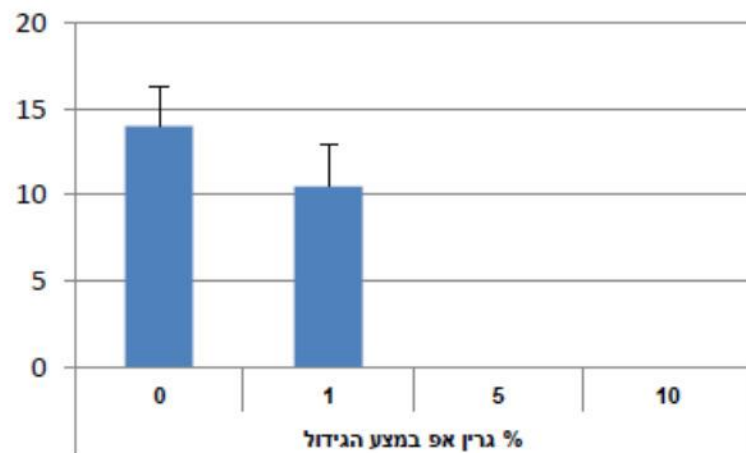
איור 3. השפעת ריכוז התכשיר Green Up: מבחן גידול ריזוקטוניה בצלחות פטרי בהוספת ריכוזים עולים של Green Up.

Influence of Green Up constriction on the pathogens in a Petri dish.



עכוב גידול ריזוקטוניה ע"י תכשיר גרין אפ בצלחות

אורך גידול מקסימלי מנקודת האכלוס (מ"מ)

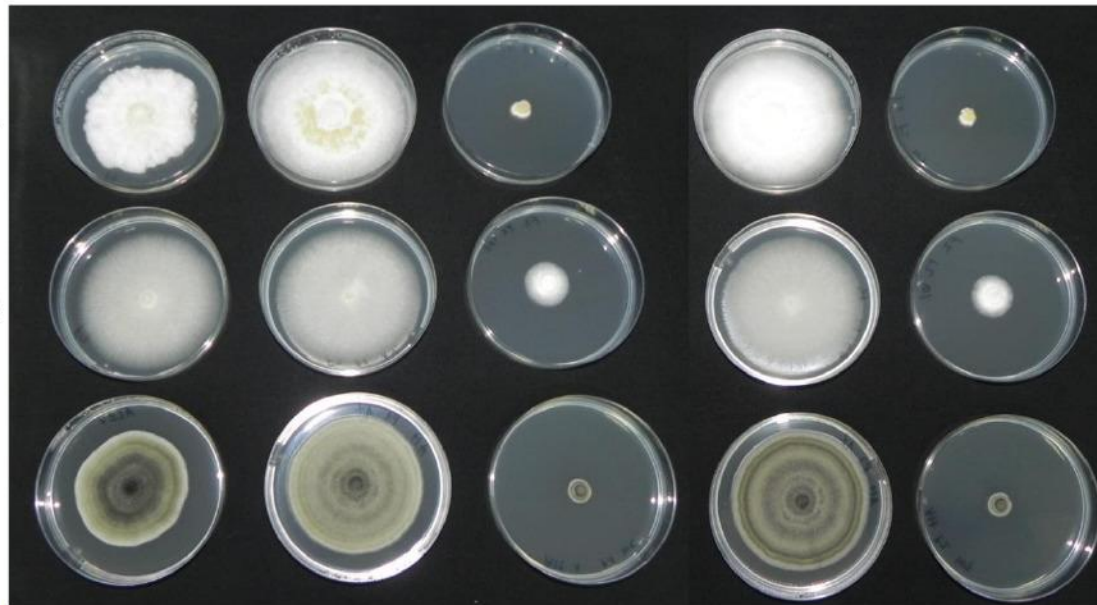


# Cannabis fusarium (similar to the Banana Fusarium) - first result

Phytotoxicity test

P1,P2 are Green Up products

PDA    PDA+ 1%P1    PDA+ 10%P1    PDA+ 1%P2    PDA+ 10%P2



**GREEN↑P**

POULTRY INDUSTRY

[Green Life Group](#)  
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Chicken Coops  
Cleaning



In cleaning and sanitizing the chicken coop the product we developed efficiently destroys Salmonella, Listeria, E-coli and eradicates red and black mite. The product was checked in field tests with very good results that proved the efficiency of the product. Every stage of treatment in the coop was accompanied by constant laboratory tests. In the places treated by our product and tested there was no salmonella or Listeria or red mite infestation. There was no pollution to the land the Coop occupied.

**Green up C - One Product for All Poultry Cleaning.**

# Oil & Gas - Refinery

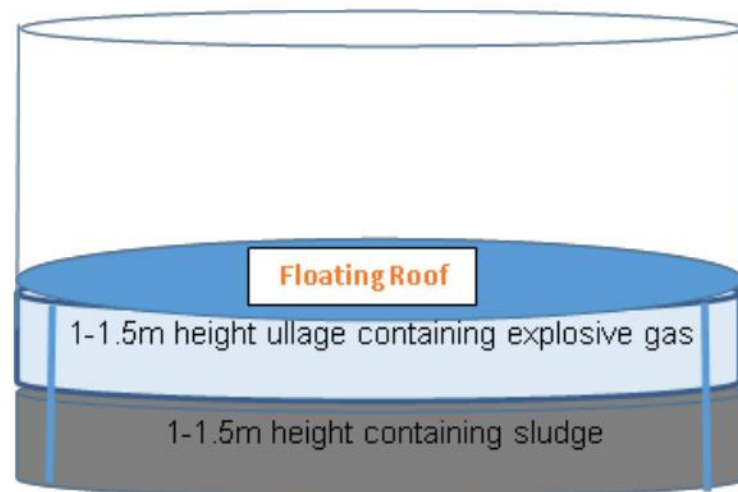
- The oil industry is one of the major pollutants in our life. It starts from the refining of the crude oil and continues until it is changed into fuels and other petroleum products.
- ▶ Since our life depends on energy we our best option is to use green products in the oil industry .
- ▶ One example is cleaning the heat exchanger with Green Up instead of strong and harmful chemicals.



# Oil & GAS - Refinery

Expert Opinion on the Safe Implementation of "Green Up Fog" in neutralizing the explosive environment within large fuel tanks – A heat transfer cleaning project with BAZAN,

“The conclusion is therefore obvious – the use of "Green up Fog" is safe for the purpose of neutralizing the odor and gas flammability prior and during cleanup of the fuel sludge in large fuel tanks with floating roofs.”



# Garbage containers –clean and disinfect

- ▶ Major success for Green Up in cleaning and disinfecting garbage containers and garbage compressors.
- ▶ Sales up from 7% in 2015 to 13% in 2016





# Kitchens and Bakeries

- ▶ There are ongoing projects in industrial kitchens and bakeries.
- ▶ Our products are used to clean and disinfect industrial kitchens and food preparation areas including the work place, surfaces, machines and refrigerators .



# Home Use

- ▶ In 2017 we are going to “refresh” our brand for home use which will include new packaging.
- ▶ We will launch our online store and increase our advertisement via social media.



# Certificates

## CERTIFICATE

This is to certify that the Quality Management System of  
**GREEN LIFE GROUP LTD.**

78, Hapirion St., Ashdod, Israel

Has been audited and registered by SII-QCD as conforming to the requirements of  
**ISO 9001:2008**

This Certificate is Applicable to  
**Manufacture and distribution of biodegradable cleaners and biodegradable products.**

Certificate No.: 75042  
Initial Certification Date: 08/12/2014

Certificate Issue Date: 08/12/2015  
Certification Expiry Date: 07/12/2017

SII-QCD assumes no liability to any party other than the client, and then only in accordance with the agreed upon Certification Agreement. This certificate's validity is subject to the organization maintaining their system in accordance with SII-QCD requirements for system certification. The continued validity may be verified via scanning the code with a smartphone, or via website [www.sii.org.il](http://www.sii.org.il). This certificate remains the property of SII-QCD.

  
Eli Stein  
Director General



  
Eli Cohen-Kagan  
Director, Quality & Certification Division

## CERTIFICATE

This is to certify that the Environmental Management System of  
**GREEN LIFE GROUP LTD.**

78, Hapirion St., Ashdod, Israel

Has been audited and registered by SII-QCD as conforming to the requirements of  
**ISO 14001:2004**

This Certificate is Applicable to  
**Manufacture and distribution of biodegradable cleaners and biodegradable products.**

Certificate No.: 72589  
Initial Certification Date: 08/12/2014

Certificate Issue Date: 08/12/2015  
Certification Expiry Date: 07/12/2017

SII-QCD assumes no liability to any party other than the client, and then only in accordance with the agreed upon Certification Agreement. This certificate's validity is subject to the organization maintaining their system in accordance with SII-QCD requirements for system certification. The continued validity may be verified via scanning the code with a smartphone, or via website [www.sii.org.il](http://www.sii.org.il). This certificate remains the property of SII-QCD.

  
Eli Stein  
Director General



  
Eli Cohen-Kagan  
Director, Quality & Certification Division



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**Purpose:** Surface Disinfection Efficiency.

**Product:**

Name	Manufacturer	Batch №	Lab №	Reception Date
גול ניקוי פרי וירק	Green Up	/	18076	28.01.15

**Reference:** The Antimicrobial Efficiency of the product was tested in accordance with Israeli Standard 1944, February 1997.

**Results:** The results are summarized in Table I.

**Conclusions:** According to Israeli Standard 1944 (1997) the product possesses antimicrobial activity and demonstrate 99.99% reduction in the bacterial viable counts and conforms to the requirements of the Israeli standard 1944.

**Table I**

Test Organism	Untreated Surface	Treated Surface
<i>Escherichia coli</i> 8739	~10 <sup>6</sup>	0,0
<i>Staphylococcus aureus</i> 6538	~10 <sup>6</sup>	7,0
<i>Pseudomonas aeruginosa</i> 9027	~10 <sup>6</sup>	0,0
<i>Streptococcus faecalis</i> 5129	~10 <sup>6</sup>	0,0
<i>Enterobacter aerogenes</i> 13048	~10 <sup>6</sup>	0,0
<i>Aspergillus brasiliensis</i> 16404	~10 <sup>6</sup>	0,0
<i>Lactobacillus plantarum</i> 14917	~10 <sup>6</sup>	0,0
<i>Salmonella typhimurium</i> 14028	~10 <sup>6</sup>	0,0
<i>Saccharomyces cerevisia</i> 2601	~10 <sup>6</sup>	0,0



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## Report № 15-18076-T

### Green Life Group Disinfectant in food production and processing systems

**Test Method:** IS 1944

**Ordered by:**

**Approved by:**

	Name	Signature	Date
Medical Device Department Manager	Hagar Zur		23.02.15
Q.A. Manager	Marina Lerner-Nataf		23.02.15
Laboratory Manager	Dr. Irit Weiser		23.02.15

**You can find much more information in our  
website :**

[www.egreenup.com](http://www.egreenup.com)

Let us know your needs. Our R & D Team will formulate  
custom made solutions for your problems.