

73049-493

03/20/2013

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Biopesticides and Pollution Prevention Division  
(7511P)  
1200 Pennsylvania Avenue NW  
Washington, DC 20460

EPA Reg. Number:

73049-493

Date of Issuance:

MAR 20 2013

Term of Issuance:

Unconditional

NOTICE OF PESTICIDE:

Registration  Re-registration  
(under FIFRA, as amended)

Name of Pesticide Product:

ConTego SL Plant Growth Regulator

Name and Address of Registrant (include ZIP Code):

Valent BioSciences Corporation  
870 Technology Way, Suite 100  
Libertyville, IL 60048

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product, always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his or her motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This registration does not eliminate the need for continual reassessment of the pesticide. If the EPA determines at any time, that additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under section 3(c)(2)(B) of FIFRA.

The product is registered in accordance with FIFRA section 3(c)(7) and is subject to the following terms and conditions:

1. Submit and/or cite all data required for registration of your product under FIFRA section 3(c)(7) and section 4 when the Agency requires all registrants of similar products to submit such data.
2. Make the following label change before you release the product for shipment: Revise the EPA Registration Number to read, "EPA Reg. No. 73049-493."
3. Submit two (2) copies of the revised final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of the final printed label.

If these conditions are not complied with, the registration will be cancelled in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of this condition. A stamped copy of the label is enclosed for your record.

Signature of Approving Official:

Keith A. Matthews, Director  
Biopesticides and Pollution Prevention Division

Date:

20 March 2013

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# ConTego™ SL Plant Growth Regulator Soluble Liquid

## FOR USE ON VEGETABLE CROPS

Active Ingredient	
S-Absciscic Acid .....	10.0% w/w
Other Ingredients.....	90.0% w/w
Total.....	100.0% w/w

ConTego™ SL contains 10 g of S-Absciscic Acid per 100 ml of product. ConTego SL contains the active ingredient S-Absciscic acid, commonly known as S-ABA. S-ABA is a naturally occurring-plant growth regulator found in plants. Application of S-ABA controls plant growth, reduces transpiration and water use, and increases the plant's tolerance to environmental stresses (such as drought or chilling).

### KEEP OUT OF REACH OF CHILDREN CAUTION

See next panel for First Aid Information.

EPA Registration No. 73049-\_\_\_\_  
EPA Establishment No. 33762-IA-001

**ACCEPTED**  
MAR 20 2013

Permittee:  
Valent BioSciences Corporation  
870 Technology Way  
Libertyville, IL 60048  
1-847-968-4700

Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended, for  
the pesticide registered under  
EPA Reg. No. 73049-493

Net Contents: 68 oz. (2000 ml)

FIRST AID	
If in Eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also call toll-free 1-800-892-0099 (24 hours) for emergency medical treatment and/or transport emergency information. For all other information, call 1-847-968-4700.	

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## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS & DOMESTIC ANIMALS

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

#### Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical resistant gloves.
- Shoes plus socks.
- Protective eyewear.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### User Safety Recommendations

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash-water or rinsate.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with the terms of the Label. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

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### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls.
- Chemical resistant gloves (made of any waterproof material).
- Shoes plus socks.
- Protective eyewear.

### GENERAL DIRECTIONS FOR USE

Use only as directed. Read the label thoroughly and make sure it is fully understood before making applications. Applying ConTego SL (S-ABA) significantly reduces transpiration, delays wilting, reduces water requirements and usage, slows plant metabolism resulting in protection from environmental stresses, such as drought, chilling, and transplant shock. Under stress conditions, endogenous S-ABA levels increase in plants. S-ABA in turn signals stomata to close, thus reducing water loss, controlling water usage, as well as regulating other plant physiological processes reducing metabolism in plants. Exogenous application of S-ABA causes similar results, protecting the plant from upcoming environmental stress. Undesired effects can result from deviations from the label directions in the rates, timings, water volumes, or the adoption of untested spray mixtures when applying ConTego SL.

#### Application Instructions:

- The optimum usage rate of ConTego SL varies depending on the crop, the individual user's production situation and the desired final plant height and appearance. To insure crop safety, spray a small area prior to large scale application to determine the optimum ConTego SL rate, timing and frequency under your individual production situations.



## FACTORS AFFECTING RESPONSE TO CONTEGO SL

In addition to proper application technique, environmental and cultural factors will affect the plant's response to treatment with ConTego SL.

**Different varieties or cultivars** within a given plant species may require a higher or lower rate of ConTego SL to achieve the desired reduction in stress response.

**Temperature and humidity** are important factors in a plant's response to ConTego SL. Higher temperatures and lower humidity will cause plants to dry more quickly than low temperatures and high humidity.

Apply in the morning or evening when conditions are best for slow drying of applied material, in order to ensure adequate absorption of the product.

Overhead irrigation or rainfall within 6 hours after application will reduce product activity.

**Determining Optimal Rates:** Optimal ConTego SL rates will vary according to the desired reduction in stress response, growing conditions, cultural practices, application technique, and environmental conditions. Different varieties or cultivars of the same species may respond differently to ConTego SL. **Therefore, to determine response levels and/or phytotoxicity potential, treat a small number of plants (using application rates specified in Table 1) before applying ConTego SL to a large number of plants.** With increasing temperature and lower humidity consider using the higher rates within the range given in Table 1, do not to apply to plants that are already under stress.

DO NOT exceed the maximum stated rate.

**Use of Adjuvants:** Use a non-ionic surfactant at the final adjuvant concentration directed by the adjuvant manufacturer. Use of an adjuvant will improve wetting and coverage. Use of an adjuvant may cause yellowing of leafy green vegetables.

## COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS

ConTego SL can be tank mixed with DiPel<sup>®</sup>, BioBit<sup>®</sup> and XenTari<sup>®</sup> biological insecticides. Compatibility and performance data for ConTego SL with other agricultural products is not available.

Do not tank mix ConTego SL with compounds containing aluminum, copper or iron ions. Do not tank mix ConTego SL with any product unless compatibility had been verified. If considering tank mixing ConTego SL with other products use the following **compatibility jar test** before mixing a whole tank:

Add water from the same water source to a clear glass or plastic jar. Add the products in correct proportions. Mix thoroughly and let stand for a minimum of 15 minutes. Separation, gelling, precipitation or generation of heat are all signs of incompatibility.

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Even if a mix passes the jar test for compatibility, it is imperative to test it on a designated small number of plants to evaluate for phytotoxicity and effectiveness.

Always read and follow all label directions and precautions of each product. When using combinations of products the most restrictive of label limitations and precautions must be followed. Do not mix with any product that has a prohibition against tank mixing. For further information consult your Valent agricultural specialist at 1-800-6-VALENT (1-800-682-5368).

**APPLICATIONS, RATES, AND TIMINGS**

**For Slowing of Plant Growth Prior To Transplanting**

CROP	APPLICATION INSTRUCTIONS
<p><b><u>Cucurbit vegetables</u></b> such as cucumber, melon, etc. grown for transplanting</p>	<p>Greenhouse and covered area applications: Apply up to 1 fl oz (29 ml) of ConTego SL per gallon (up to 750 ppm S-ABA) as a foliar spray or through sprinkler irrigation (chemigation) in 2-10 quarts of spray mixture per 100 square feet. This application can be made up to 24 hours prior to shipping of the transplants when slowing of plant growth is desired. Increasing the volume of spray mixture will increase efficacy. Applications may start after the plant has reached the cotyledon stage and subsequent applications may be used to reduce the growth between internodes of the plant. Multiple (up to three) applications may be used during the greenhouse growing period to obtain the desired plant height. If multiple applications are made to transplants for controlling growth, the total amount of S-ABA may not exceed that from a single maximum label rate (750 ppm) application of ConTego SL.</p>
<p><b><u>Brassica vegetables</u></b> such as cabbage, broccoli, etc. grown for transplanting</p>	<p>Greenhouse and covered area applications: Apply up to 1 fl oz (29 ml) of ConTego SL per gallon (up to 750 ppm S-ABA) as a foliar spray or through sprinkler irrigation (chemigation) in 2-10 quarts of spray volume per 100 square feet. This application can be made up to 24 hours prior to shipping of the transplants when slowing of the plant growth is desired. Increasing the volume of spray mixture will increase efficacy.</p>

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<p><b><u>Fruiting vegetables</u></b> such as tomato, pepper, etc.</p>	<p>Greenhouse and covered area applications: Apply up to 2.6 fl oz (76 ml) of ConTego SL (up to 2000 ppm S-ABA) per gallon as a foliar spray or through sprinkler irrigation (chemigation) in 2-10 quarts of spray mixture per 100 square feet. This application can be made up to 24 hours prior to shipping of the transplants when slowing of plant growth is desired. Increasing the volume of spray mixture will increase efficacy. Applications may start after the plant has reached the cotyledon stage and subsequent applications may be used to reduce the growth between internodes of the plant. Multiple (up to three) applications may be used during the greenhouse growing period to obtain the desired plant height. If multiple applications are made to transplants for controlling growth, the total amount of S-ABA may not exceed that from a single maximum label rate (2000 ppm) application of ConTego SL.</p>
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<p><b><u>Leafy vegetables and herbs</u></b> such as celery, spinach, lettuce, beet greens and other leafy greens, fennel, basil and other herbs.</p>	<p>Greenhouse and covered area applications: Apply up to 2.6 fl oz (76 ml) of ConTego SL (up to 2000 ppm S-ABA) per gallon as a foliar spray or through sprinkler irrigation (chemigation) in 2-10 quarts of spray volume per 100 square feet. This application can be made up to 24 hours prior to shipping of the transplants when slowing of the plant growth is desired. Increasing the volume of spray mixture will increase efficacy. Multiple (up to three) applications may be used during the greenhouse growing period to obtain the desired plant height. If multiple applications are made to transplants for controlling growth, the total amount of S-ABA may not exceed that from a single maximum label rate (2000 ppm) application of ConTego SL.</p>
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**IMPORTANT:** Foliar spray applications of ConTego SL may cause yellowing of the cotyledons and lower leaves in the days following application.

Note: ConTego SL will normally reduce internode elongation for a period of 3-5 days following spray treatment, depending on crop culture, environmental conditions and plant growth habit. ConTego SL has the greatest effect on final plant height when applied during periods of rapid stem elongation. Multiple applications can be made as needed. If multiple applications are made, the total amount of S-ABA may not exceed that from a single application.



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## For Reducing “Transplant Shock”, Increasing Stress Tolerance, and Enhancing Crop Establishment

CROP	APPLICATION INSTRUCTIONS
<p><b><u>Cucurbit vegetables</u></b> such as cucumber, melon, etc. grown for transplanting</p>	<p>Greenhouse and covered area applications: Apply up to 1.3 fl oz (38 ml) of ConTego SL (up to 1000 ppm S-ABA) per gallon as a foliar spray or through sprinkler irrigation (chemigation) in 2-10 quarts of spray volume per 100 square feet. This application can be made from 24 to 72 hours prior to shipping of the transplants. Increasing the volume of spray mixture will increase efficacy.</p>
<p><b><u>Brassica vegetables</u></b> such as cabbage, broccoli, etc. grown for transplanting</p>	<p>Greenhouse and covered area applications: Apply up to 1.3 fl oz (38 ml) of ConTego SL (1000 ppm S-ABA) per gallon as a foliar spray or through sprinkler irrigation (chemigation) in 2-10 quarts of spray volume per 100 square feet. This application can be made from 24 to 72 hours prior to shipping of the transplants. Increasing the volume of spray mixture will increase efficacy.</p>
<p><b><u>Fruiting vegetables</u></b> such as tomato, pepper, etc.</p>	<p>Greenhouse and covered area applications: Apply up to 2.6 fl oz (76 ml) of ConTego SL (2000 ppm S-ABA) per gallon as a foliar spray or through sprinkler irrigation (chemigation) in 2-10 quarts of spray volume per 100 square feet. This application can be made from 24 to 72 hours prior to shipping of the transplants. Increasing the volume of spray mixture will increase efficacy.</p>
<p><b><u>Leafy vegetables and herbs</u></b> such as celery, spinach, lettuce, beet greens and other leafy greens, fennel basil and other herbs.</p>	<p>Greenhouse and covered area applications: Apply up to 2.6 fl oz (76 ml) of ConTego SL (2000 ppm S-ABA) per gallon as a foliar spray or through sprinkler irrigation (chemigation) in 2-10 quarts of spray volume per 100 square feet. This application can be made from 24 to 72 hours prior to shipping of the transplants. Increasing the volume of spray mixture will increase efficacy.</p>
<p><b>IMPORTANT:</b> Foliar spray applications of ConTego SL may cause yellowing of the cotyledons and lower leaves following application.</p> <p>Note: Application of ConTego SL will reduce growth rate of young plants.</p>	

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**For Increasing Stress Tolerance (e.g., Drought or Chilling), Slowing Crop Growth, Improving Crop Quality, and Harvest Management**

<b>CROP</b>	<b>APPLICATION INSTRUCTIONS</b>
<p><b><u>Cucurbit vegetables</u></b> such as cucumber, melon, etc. (Field grown crops after transplanting or after seeding and emergence)</p>	<p>Field applications: Apply 100-200 g S-ABA (34-68 fl oz ConTego SL) per acre as a spray solution in a sufficient volume to achieve uniform and complete coverage of the plants. In most cases, 100-150 g S-ABA per acre per application will provide satisfactory results. In situations where greater effect is desired, use the higher S-ABA rate. Spray volumes ranging from 25-50 gallons per acre have been shown to be most effective when applied under slow drying conditions. Multiple (up to three) applications may be used to obtain the desired stress tolerance or plant height. If multiple applications are made, the total amount of S-ABA may not exceed that from a single maximum label rate (200 g) application of ConTego SL. Make first application to young plants in the field within four days (96 hours) after transplanting. Apply to field seeded crops after emergence. Reapply as needed four hours to four days (96 hours) prior to stress events such as chilling.</p>
<p><b><u>Brassica vegetables</u></b> such as cabbage, etc. (Field grown crops after transplanting or after seeding and emergence)</p>	<p>Field applications: Apply 100-200 g S-ABA (34-68 fl oz ConTego SL) per acre as a spray solution in a sufficient volume to achieve uniform and complete coverage of the plants. In most cases, 100-150 g S-ABA per acre per application will provide satisfactory results. In situations where greater effect is desired, use the higher S-ABA rate. Spray volumes ranging from 25-50 gallons per acre have been shown to be most effective when applied under slow drying conditions. Multiple (up to three) applications may be used to obtain the desired stress tolerance or plant height. If multiple applications are made, the total amount of S-ABA may not exceed that from a single maximum label rate (200 g) application of ConTego SL. Make first application to young plants in the field within four days (96 hours) after transplanting. Apply to field seeded crops after emergence. Reapply as needed four hours to four days (96 hours) prior to stress events such as chilling.</p>

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<p><b><u>Fruiting vegetables</u></b> such as tomato, pepper, etc.</p>	<p>Field applications: Apply 200-400 g S-ABA (68-139 fl oz ConTego SL) per acre as a spray solution in a sufficient volume to achieve uniform and complete coverage of the plants. In most cases, 200-300 g S-ABA per acre per application will provide satisfactory results. In situations where greater effect is desired, use the higher S-ABA rate. Spray volumes ranging from 25-50 gallons per acre have been shown to be most effective when applied under slow drying conditions. Multiple (up to three) applications may be used to obtain the desired stress tolerance or plant height. If multiple applications are made, the total amount of S-ABA may not exceed that from a single maximum label rate (400 g) application of ConTego SL. Make first application to young plants in the field within four days (96 hours) after transplanting. Apply to field seeded crops after emergence. Reapply as needed four hours to four days (96 hours) prior to stress events such as chilling.</p>
<p><b><u>Leafy vegetables and herbs</u></b> such as celery, spinach, lettuce, beet greens and other leafy greens, fennel, basil and other herbs.</p>	<p>Field applications: Apply up to 150 g S-ABA (51 fl oz ConTego SL) per acre as a spray solution in a sufficient volume to achieve uniform and complete coverage of the plants. In most cases, 75-100 g S-ABA per acre per application will provide satisfactory results. In situations where greater effect is desired, use the higher S-ABA rate. Spray volumes ranging from 25-50 gallons per acre have been shown to be most effective when applied under slow drying conditions. Multiple (up to two) applications may be used to obtain the desired stress tolerance or plant height; applications must be made at least 96 hours apart. If multiple applications are made, the total amount of S-ABA may not exceed that from a single maximum label rate (150 g) application of ConTego SL. Slowing of crop growth will last for a period of three to five days depending upon the crop, application rate and environmental conditions at the time of application.</p>
<p><b>IMPORTANT:</b> Foliar spray applications of ConTego SL may cause yellowing of the cotyledons and lower leaves following application. Not recommended for use on Tatsoi and Arugula.</p>	

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PPM S-ABA Desired	Fluid Oz. Per Gallon	Fluid Oz. Per 10 Gallons	Milliliters Per Gallon	Milliliters Per 10 Gallons
125	0.16	1.6	4.8	48
250	0.3	3.3	9.5	95
500	0.7	6.5	19.0	190
1000	1.3	13.0	38.0	380
2000	2.6	26.0	76.0	760

## CHEMIGATION

Apply this product only through the following systems:

- 1) Spray, such as hand-held or machine-operated calibrated equipment (for field and greenhouse and covered area applications),
- 2) Overhead sprinklers, such as impact, micro-sprinklers, or booms (for greenhouse and covered area applications only).

Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

## CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional, reduced pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.



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**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage

Keep container tightly closed when not in use. Store product in a cool and dry place. Avoid extended storage conditions at temperatures above 25°C (77°F). Avoid exposure of product to light or sunlight.

Pesticide Disposal

To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

Container Disposal

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after flow begins to drip. Fill container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available or puncture and dispose of the container in a sanitary landfill, or by other procedures approved by state and local authorities.

**WARRANTY AND DISCLAIMER STATEMENT**

To the fullest extent permitted by law, seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning use of this product other than as indicated on the label. User assumes all risks of use, storage or handling not in strict accordance with accompanying directions.

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