

























| Application rates for tomatoes (pepper, eggplant)                                 |   |   |   |   |   |
|---|---|---|---|---|---|
| Seed and seedling steeping for 1.5-2 hours in VIMPEL 2.3% sol                     | VIMPEL ® 500 g/ha   |   | VIMPEL ® 500 g/ha   |   |   |
|  |  |  |  |  |  |
| BBCH  | 13-15 (13-17)   | 51-53   | 61-63   | 71-73   | 88-89   |
| Seed (seedling) treatment   | 3-5 leaves (from seed)/ 3-7 leaves (when transplanting)                           | Inflorescence emergence (before flowering)  | Flowering   | Development of fruit  | Ripening  |

| Application rates for horticultural crops (apple tree)                            |   |   |   |   |   |
|---|---|---|---|---|---|
| Graft and sapling treatment by means of steeping in VIMPEL 2.3% sol               | VIMPEL ® 1.0-1.5 kg/ha  |   | VIMPEL ® 1.0-1.5 kg/ha  |   |   |
|  |  |  |  |  |  |
| BBCH  | 57-59   | 65  | 71  | 74  | 87-89   |
| Treatment before planting   | Before flowering  | Flowering   | After flowering (fruit set)   | Fruit development   | Ripening  |

| Application rates for berry crops   |   |   |   |   |   |
|---|---|---|---|---|---|
| Seedling (sapling) treatment by means of steeping in VIMPEL 2.3% sol              | VIMPEL ® 500 g/ha   |   | VIMPEL ® 500 g/ha   |   |   |
|  |  |  |  |  |  |
| BBCH  | 57-59   | 65  | 71-73   | 87-89   |   |
| Treatment before planting   | Before flowering  | Flowering   | After flowering (fruit set)   | Ripening  |   |

| Application rates for grapes  |   |   |   |   |   |
|---|---|---|---|---|---|
| Stalk and seedling treatment by means of steeping in VIMPEL 2.3% sol                | VIMPEL ® 1.0-1.5 kg/ha  |   |   |   |   |
|  |  |  |  |  |  |
| BBCH  | 57  | 71  | 75  | 85  | 89  |
| Treatment before planting   | Before flowering  | After flowering (fruit set)   | Fruit development   | Softening of berries  | Ripening  |



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**VIMPEL**®  
PLANT GROWTH STIMULATOR

**DOLINA**  
GROUP OF COMPANIES

# VIMPEL®

## PLANT GROWTH STIMULATOR

Founded in 1997, Dolina Group is specialized in developing, manufacturing and distributing of plant growth stimulators and micronutrients.

Our innovative plant growth stimulator Vimpel for foliar and seed treatment helps crops to fulfill their potential, effectively increasing yields by up to 30%. Our products are liquid, compatible with other pesticides and fertilizers, can be used in tank mixtures and are environmentally safe. Plant-friendly formulation, without hormones.

Composition:

Polyethylene glycols – 770 g/L  
Washed salts of humic acids – 6 g/L

### How it works:

**Growth stimulator.** Low molecular weight polyethylene oxides easily get into plant tissues, performing a transport agent function for all the formulations which are applied together with growth stimulator. Low molecular weight polyethylene oxide also structures free intracellular water, increasing its bioactivity, accelerates growth process and photosynthesis; regulates the transpiration and intensity of mineral nutrition. The decomposition products of polyethylene oxides - ethanolamines - are the elements of plant cell nutrition. The presence of high purity salts of humic acids enhances the root formation and nutrition, which improves the plants' growth.

**Adaptogen, thermo- and cryoprotectant.** The combined effect of two polymers increases the osmotic pressure, directed inside the cell, enhances the protein metabolism which increases the plants' sugar content. These changes make the organism more resistant to unfavorable environmental conditions; plants become more resistant to increases and decreases of temperature, low air humidity.

**Anti-stress agent.** Plant reaction to pesticides treatment is a synthesis of specific high - stress proteins and ferments that neutralize any negative effects. Low molecular weight polyethylene oxides accelerate the metabolism in plant tissues which results in a more intensive synthesis of anti-stress substance.

**Adjuvant.** Polyethylene oxides with high molecular weight have a high film forming properties. Thus the product provides the fixation of products from the tank mix on the surface of seeds and leaves that enhances the efficiency of pesticides and micronutrients. In case of lack of moisture in the soil during a long period of time (up to 2 months) a formed film on the surface of treated seeds keeps their germinating ability.

VimpeL has already been tested in many countries with good results.

Dolina have an experienced qualified technical assistance team, sophisticated laboratories and a proven track record of effectiveness of our products on many types of crops.

We cooperate with research institutions in Ukraine, Russia, Belarus, Kazakhstan, Uzbekistan, Germany, Italy, Turkey, Hungary and Romania.

**Dolina Group –  
stimulating the growth of your income!**

