TECHNICAL USE SHEET

VectoBac® Granule

Biological Larvicide

VectoBac® G, GS (formerly CG), and GR Biological Larvicide are granular formulations of *Bacillus thuringiensis* subsp. *israelensis* strain AM65-52 for control of mosquito larvae. VectoBac GR is the only *Bti* granular biological larvicide to complete the World Health Organization Pesticide Evaluation Scheme (WHOPES). The potency of all three formulations is 200 International Toxin Units (ITU) per milligram against *Aedes aegypti* larvae. The size, shape, and density of VectoBac granules lessen the potential for off-target application due to aerial drift and enable good penetration of dense vegetation.

Granule Formulations



VECTOBAC G

First *Bti* granule established for public health use in the early 1980s, VectoBac G contains both floating and sinking granules to ensure distribution of active ingredient throughout larval feeding zone. Granule size is approximaely 5/8 mesh (2.4–4.0 mm) with a mean bulk density of 27 lbs/ft$_3$ (432 kg/m$_3$).*



VECTOBAC GS

The smaller granule VectoBac GS ensures maximum coverage at low rates. Granule size is approximately 10/14 mesh (1.4–2.0 mm) with a mean bulk density of 34 lbs/ft$_3$ (545 kg/m$_3$).*



VECTOBAC GR

The higher density VectoBac GR is the only *Bti* granule in the market to complete the WHOPES (World Health Organization Pesticide Evaluation Scheme). VectoBac GR also has NOP (USDA National Organic Program) certification. Granule size is approximately 10/20 mesh (0.8–2.0 mm) with a mean bulk density of 44 lbs/ft$_3$ (705 kg/m$_3$).*

For Organic Production

* Bulk density numbers are approximations; general ranges are as follows: VectoBac G: 25-29 lbs/ft3 (400-465 kg/m3); VectoBac GS: 30-37 lbs/ft3 (481-593 kg/m3); VectoBac GR: 39-46 lbs/ft3 (625-737 kg/m3)

COVERAGE

▶ Granules per gram:	VECTOBAC G (mean = 65)*		VECTOBAC GS (mean = 406)*		VECTOBAC GR (mean = 476)*	
Rate in lbs/acre (kg/hectare)	Ft$_2$	M$_2$	Ft$_2$	M$_2$	Ft$_2$	M$_2$
2.5 (2.8)	1-2	15-17	10-11	98-104	12-13	111-126
5.0 (5.6)	3-4	29-35	21-22	196-208	23-26	223-252
7.5 (8.4)	4-6	44-53	31-33	295-312	35-39	334-377
10.0 (11.2)	6-7	59-70	41-44	393-416	47-53	445-503

* Granules per gram and number per ft2 (m2) are approximations; general ranges are as follows: VectoBac G: 59-70; VectoBac GS: 394-417; VectoBac GR: 447-505

VALENT HEALTH™
Protecting Life's Potential

TECHNICAL USE SHEET

VectoBac® Granule

Biological Larvicide

Bulk Density

An application rate range of 2.5–10 lbs/acre (2.8–11.2 kg/ha) is recommened. Use 10–20 lbs/acre (11.2–22.4 kg/ha) when late 3rd and early 4th instar larvae predominate, mosquito populations are high, water is heavily polluted (sewage lagoons, animal waste lagoons), and/or algae are abundant.

Packaging

VectoBac Granules are available in the standard pack size of 40 lb (18 kg) bags. Special bulk orders are available in super sacks ranging from 1,000 to 1,400 lbs (453 kg and 635 kg, respectively). Check with your local distributor or Valent Health technical representative to see what packaging is available in your area.



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Protecting Life's Potential