



TEST REPORT

of the
Julius Kühn-Institut
Federal Research Institute
for Cultivated Plants, Braunschweig
(former Federal Biological Research Centre for
Agriculture and Forestry - BBA)



**Injector hollow cone nozzle ALBUZ TVI 80-03
(Ceramics, plastic-coated, blue)**

**Approved for band-spraying herbicides in orchards and
vineyards**

Applicant and Manufacturer
Agrotop GmbH
Köferinger Strasse 5
93083 Obertraubling-Gebelkofen

Approved on
6 January 2011

Assessment

The injector hollow cone nozzle ALBUZ TVI 80-03 (ceramics, plastic-coated, blue) was tested without accessories. The nozzle is suitable for band-spraying herbicides in orchards and vineyards, proved that the following technical requirements are fulfilled:

1. Installation in a spray boom with a sufficient and a steady amount of liquid flow,
2. Spray pressure – measured before the nozzle – between 4.0 and 8.0 bar; liquid volume flow per nozzle as stated in table below.
3. Distances between nozzles and spray target and resulting band:
Distance 30 cm – width 50 cm
Distance 40 cm – width 60 cm
Distance 50 cm – width 75 cm

Suitable precautions should be taken to assure that the nozzles do not get blocked up or drip when in use. The dimensions of the nozzle tip comply with standard ISO 8169. The colour coding comply with standard ISO 10625.

Pressure (bar)	Liquid flow volume without accessories (l/min)	Max. deviation of single nozzle flow from the dosage tables	Droplet spectrum (BCPC-Standard)
4.0	1.38	-	-
4.5	1.46	-	-
5.0	1.54	- 4.00 %	-
5.5	1.61	-	-
6.0	1.68	- 4.20 %	-
6.5	1.75	-	-
7.0	1.82	-	-
7.5	1.88	-	-
8.0	1.94	- 4.55 %	-

Loss reducing properties

Included in the list „Loss reducing equipment“ (as of 22 March 2011)

Drift reducing classification	Type of equipment and drift reducing parts	Regulations for use
90 %	Sprayers for herbicides in orchards and vineyards with nozzle ALBUZ TVI 80-03	Spraying with distances between 30 and 50 cm between nozzles and spray target.

Field test

The nozzles were used in the year 2010 on a total of 15 hectares, a sufficient effect of the plant protective measures was confirmed.

Basics for testing

The tests were carried out on basis of the Regulations for Testing Plant Protection Equipment (JKI-Guideline 1-2.3.1:2008) and of ISO 5682-1:1999. The requirements of EN 12761-2:2002 and of JKI-Guideline 1-2.1:2011 were fulfilled.

Field testing:

Dienstleistungszentrum Ländlicher Raum (DLR)
Rheinessen-Nahe-Hunsrück
Rüdesheimer Strasse 60-68
55545 Bad Kreuznach

Technical testing:

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