

BCS173017 Comparison Examples**Phaedon cochleariae – spray test (PHAECO)**

Solvent: 78.0 parts by weight of acetone
 1.5 parts by weight of dimethylformamide
Emulsifier: alkylaryl polyglycol ether

To produce a suitable preparation of active compound, 1 part by weight of active compound is mixed with the stated amount of solvents and is diluted with water, containing an emulsifier concentration of 1000 ppm, to the desired concentration. Further test concentrations are prepared by dilution with emulsifier containing water.

Chinese cabbage (*Brassica pekinensis*) leaf disks are sprayed with a preparation of the active ingredient of the desired concentration. Once dry, the leaf disks are infested with mustard beetle larvae (*Phaedon cochleariae*).

After the specified period of time, mortality in % is determined. 100 % means all beetle larvae have been killed and 0 % means none of the beetle larvae have been killed.

In this test, for example, the following compound from the preparation examples shows a superior level of activity compared to the prior state of the art: see list

Spodoptera frugiperda – spray test (SPODFR)

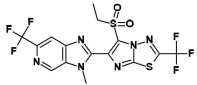
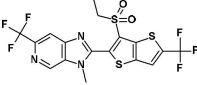
Solvent: 78.0 parts by weight acetone
 1.5 parts by weight dimethylformamide
Emulsifier: alkylaryl polyglycol ether

To produce a suitable preparation of active compound, 1 part by weight of active compound is mixed with the stated amount of solvents and is diluted with water, containing an emulsifier concentration of 1000 ppm, to the desired concentration. Further test concentrations are prepared by dilution with emulsifier containing water.

Maize (*Zea mays*) leaf sections are sprayed with a preparation of the active ingredient of the desired concentration. Once dry, the leaf sections are infested with fall armyworm larvae (*Spodoptera frugiperda*).

After the specified period of time, mortality in % is determined. 100 % means all caterpillars have been killed and 0 % means none of the caterpillars have been killed.

In this test, for example, the following compound from the preparation examples shows a superior level of activity compared to the prior state of the art: see list

Substance	Structure	Object	Concentration	% Efficacy dat*	
Known from WO 2016/129684		PHAECO	20 g ai/ha	50	7 dat
			4 g ai/ha	17	7 dat
			0.8 g ai/ha	17	7 dat
		SPODFR	100 g ai/ha	17	7 dat
			20 g ai/ha	0	7 dat
			4 g ai/ha	0	7 dat
Example No. I-3 According to the invention		PHAECO	20 g ai/ha	100	7 dat
			4 g ai/ha	100	7 dat
			0.8 g ai/ha	100	7 dat
		SPODFR	100 g ai/ha	100	7 dat
			20 g ai/ha	100	7 dat
			4 g ai/ha	100	7 dat

*dat = days after treatment