



2022 Relative Performance of Fungicides Including Tank Mixes for Control of Botrytis Leaf Blight (Table 1) and Stemphylium Leaf Blight (Table 2) in Onion

Results based mostly on 2021 on-farm fungicide trials (Hoepfing et. al).

Table 1. Botrytis Leaf Blight (BLB)

Relative Efficacy	BLB Halo Lesion		BLB Necrotic Lesions	
	Treatment Product and Rate/A	FRAC ¹ Group(s)	Treatment Product and Rate/A	FRAC Group(s)
Best!	• Omega 16 fl oz	29	• Viathon 3 pt + Tilt 8 fl oz	3c + P07, 3a
Very Good to Good	• Miravis Prime 11.4 fl oz ± Rovral 1 pt	7(4) + 12, 2	• Quadris Top 14 fl oz + Tilt 8 fl oz	3b + 11, 3a
	• Merivon 9 fl oz	7(2) + 11	• Viathon 3 pt	3c + P07
	• Luna Tranquility 16 fl oz + Rovral 1 pt	7(1) + 9a, 2	• Inspire Super 20 fl oz	3b + 9a
	• Bravo 3 pt	M5	• Tilt 8 fl oz (Oswego)	3a
	• Mancozeb 3 lb*	M3	• Luna Tranquility 16 fl oz ± Rovral 1 pt	7(1) + 9a, 2
Mediocre	• Luna Experience 12.8 fl oz	7(1) + 3c	• Luna Experience 12.8 fl oz	7(1) + 3c
	• Luna Tranquility 16 fl oz	7(1) + 9a	• Bravo 3 pt	M5
	• Scala 18 fl oz (Elba only)	9a	• Luna Tranquility 16 fl oz ± Rovral 1 pt	7(1) + 9a, 2
	• Rovral 1.5 pt (Oswego only)	2	• Luna Experience 12.8 fl oz	7(1) + 3c
Poor or None	• Luna Experience 12.8 fl oz	7(1) + 3c	• Scala 9 fl oz + Rovral 1 pt	9a, 2
	• Tilt 8 fl oz	3a	• Quadris Top 14 fl oz	3b + 11
	• Inspire Super 20 fl oz	3b + 9b	• Omega 16 fl oz	29
	• Quadris Top 14 fl oz	3b + 11	• Miravis Prime 11.4 fl oz	7(4) + 12
	• Viathon 3 pt	3c + P07	• Mancozeb 3 lb*	M3
	• Cevya 5 fl oz	3d	• Rovral 1.5 pt	2
	• Oso 6.5 fl oz	19	• Scala 18 fl oz	9a
	• Rovral 1.5 pt (Elba)	2	• Tilt 8 fl oz (Elba)	3a
	• Scala 18 fl oz (Oswego)	9a	• Merivon 9 fl oz	7(2) + 11
• Gavel 2 lb	22 + M3	• Oso 6.5 fl oz	19	

¹ **FRAC**: Fungicide Resistance Action Committee mode of action group. Products belonging to different FRAC groups should be rotated to avoid disease pathogens from developing fungicide resistance. Numbers in parenthesis (e.g. (1) indicate that active ingredients belong to different sub-classes within a FRAC group, and letters following numbers (e.g. 3a, 3b, 3c) indicate different active ingredients within the same sub-class of a FRAC group.

* Products that contain the active ingredient mancozeb include Manzate Max, Roper, Penncozeb, etc.

Table 2. Stemphylium Leaf Blight (SLB) and Prevention of Excessive Leaf Dieback

Relative Efficacy	SLB Target Spots		(Prevention of Excessive Leaf Dieback)	
	Treatment Product and Rate/A	FRAC ¹ Group(s)	Treatment Product and Rate/A	FRAC Group(s)
Best!	---	---	• Viathon 3 pt + Tilt 8 fl oz	3c + P07, 3a
			• Luna Experience 12.8 fl oz + Rampart 3 qt	7(1) + 3c, P07
Very Good to Good	• Viathon 3 pt + Tilt 8 fl oz	3c + P07, 3a	• Luna Tranquility 16 fl oz ± Rovral 1 pt	7(1) + 9a, 2
	• Viathon 3 pt	3c + P07	• Miravis Prime 11.4 fl oz ± Rovral 1 pt	7(4) + 12, 2
	• Tilt 8 fl oz (Oswego only)	3a	• Viathon 3 pt	3c + P07
	• Quadris Top 14 fl oz + Tilt 8 fl oz (Oswego only)	3b + 11, 3a	• Quadris Top 14 fl oz + Tilt 8 fl oz	3b + 11, 3a
	• Luna Tranquility 16 fl oz + Rovral 1 pt	7(1) + 9a, 2	• Luna Experience 12.8 fl oz	7(1) + 3c
			• Cevya 5 fl oz + Rampart 3 qt ²	3d, P07
			• Tilt 8 fl oz (Oswego only)	3a
		• Luna Tranquility 16 fl oz (Oswego only)	7(1) + 9a	
Mediocre	• Luna Tranquility 16 fl oz ± Rovral 1 pt	7(1) + 9a, 2	• Omega 16 fl oz ³	29
	• Luna Experience 12.8 fl oz	7(1) + 3c	• Rovral 1.5 pt	2
	• Miravis Prime 11.4 fl oz ± Rovral 1 pt	7(4) + 12, 2	• Scala 9 fl oz + Rovral 1 pt	9a, 2
	• Oso 6.5 fl oz	19	• Inspire Super 20 fl oz (Oswego only)	3b + 9b
	• Rovral 1.5 pt (Elba only)	2		
	• Quadris Top 14 fl oz + Tilt 8 fl oz	3b + 11, 3a		
	• Inspire Super 20 fl oz	3b + 9b		
	• Scala 18 fl oz	9a		
	• Bravo 3 pt	M5		
Poor or None	• Mancozeb 3 lb*	M3	• Tilt 8 fl oz (Elba)	3a
	• Rovral 1.5 pt	2	• Bravo 3 pt	M5
	• Scala 9 fl oz + Rovral 1 pt	9a, 2	• Mancozeb 3 lb*	M3
	• Tilt 8 fl oz (Elba)	3a	• Scala 18 fl oz	3b + 9b
	• Quadris Top 14 fl oz	3c + 11	• Inspire Super 20 fl oz (Elba)	7(2) + 11
	• Merivon 9 fl oz	7(1) + 11	• Cevya 5 fl oz	3d
	• Omega 16 fl oz	29	• Merivon 5 fl oz	7(2)
	• Gavel 2 lb	22, M3	• Oso 6.5 fl oz	19
		• Gavel 2 lb	22 + M3	

1 **FRAC**: Fungicide Resistance Action Committee mode of action group. Products belonging to different FRAC groups should be rotated to avoid disease pathogens from developing fungicide resistance. Numbers in parenthesis (e.g. (1) indicate that active ingredients belong to different sub-classes within a FRAC group, and letters following numbers (e.g. 3a, 3b, 3c) indicate different active ingredients within the same sub-class of a FRAC group.

2 It is suspected that FRAC 3 + P07 is keeping onion foliage healthy, and that any FRAC 3 + P07 product would have similar result.

3 It appears that Omega contributes to plant health, but it's the improved plant health in Omega treatments in 2021 trials is expected to be contributed to in-part to its excellent control of BLB halos.

* Products that contain the active ingredient mancozeb include Manzate Max, Roper, Penncozebe, etc.