

FRAC Monitoring Methods Status: January 2012



in vitro test	Yellow
in vivo test	Green
molecular test	Blue

Pathogen	Pathogen Name - Latin	Pathogen Name - English	Type of test	Can be used for							Method provided by
				AP	AZN	CAA	SBI	SDHI	QoI	Others	
ALTESO	<i>Alternaria solani</i>	Early blight	conidia germination, whole plant				x		x	x	Sierotzki
BOTRCI	<i>Botrytis cinerea</i>	Grey Mold	whole plant	x					x		Lachaise
BOTRCI	<i>Botrytis cinerea</i>	Grey Mold	microtiter plate				x				Mehl
BOTRCI	<i>Botrytis cinerea</i>	Grey Mold	microtiter plate	x						x	Sierotzki
BOTRCI	<i>Botrytis cinerea</i>	Grey Mold	microtiter plate					x	x		Stammler
BOTRCI	<i>Botrytis cinerea</i>	Grey Mold	radial growth test	x							Takagaki
ERYSGH	<i>Blumeria graminis</i> f. sp. <i>hordei</i> ( <i>Erysiphe graminis</i> f. sp. <i>hordei</i> )	Powdery mildew	leaf segment		x		x		x	x	Felsenstein
ERYSGT	<i>Blumeria graminis</i> f. sp. <i>tritici</i> ( <i>Erysiphe graminis</i> f. sp. <i>tritici</i> )	Powdery mildew	leaf segment		x		x		x	x	Felsenstein
ERYSGT	<i>Blumeria graminis</i> f. sp. <i>tritici</i>	Powdery mildew	leaf segment				x		x	x	Stammler/Klappach
GIBBZE	<i>Fusarium graminearum</i> ( <i>Gibberella zeae</i> ), other <i>Fusarium</i> spp.	Head Blight	microtiter plate				x			x	Mehl
MONGNI	<i>Microdochium nivale</i>	Snow Mold	microtiter plate				x		x	x	Mehl
MONISP	<i>Monilinia laxa</i> , <i>Monilinia fructigena</i>	Brown rot	germ tube elongation test					x	x		Stammler
MYCOFI	<i>Mycosphaerella fijiensis</i>	Banana Black Sigatoka	ascospore germination				x		x	x	Madrigal, Arroyo, Astua
MYCOFI	<i>Mycosphaerella fijiensis</i>	Banana Black Sigatoka	ascospore germination				x		x	x	Jacome
MYCOFI	<i>Mycosphaerella fijiensis</i>	Banana Black Sigatoka	ascospore germination	x			x		x	x	Fabregar
PHAKPA	<i>Phakopsora pachyrhizi</i>	Asian soybean rust	spore germination						x		Buzzerio
PHAKPA	<i>Phakopsora pachyrhizi</i>	Asian soybean rust	detached leaf				x				Scherb/Mehl
PHYTIN	<i>Phytophthora infestans</i>	Late blight	detached leaf						x		Edel/Sierotski
PHYTIN	<i>Phytophthora infestans</i>	Late blight	microtiter (with sporangia)						x		Genet
PHYTIN	<i>Phytophthora infestans</i>	Late blight	microtiter (with sporangia)			x				x	Stammler
PHYTIN	<i>Phytophthora infestans</i>	Late blight	tissue culture plate (mycelial plugs)			x				x	Stammler
PHYTIN	<i>Phytophthora infestans</i>	Late blight	detached leaf			x				x	Stammler
PLASVI	<i>Plasmopara viticola</i>	Downy mildew	microtiter plate						x		Genet
PLASVI	<i>Plasmopara viticola</i>	Downy mildew	detached leaf						x		Mehl
PLASVI	<i>Plasmopara viticola</i>	Downy mildew	detached leaf			x			x	x	Sierotzki/Kraus
PSDCHE	<i>Oculimacula</i> spp. ( <i>Tapesia</i> spp., <i>Pseudocercospora</i> spp.)	Eyespot	microtiter plate				x				Mehl
PSDCHE	<i>Oculimacula yallundae</i> , <i>Oculimacula acuformis</i>	Eyespot	microtiter plate					x			Stammler
PUCCRE	<i>Puccinia recondita</i>	Wheat brown rust	leaf segment				x		x	x	Felsenstein
PYRNTE	<i>Pyrenophora teres</i> ( <i>Drechslera teres</i> , <i>Helminthosporium teres</i> )	Net blotch	microtiter plate				x		x	x	Sierotzki
PYRNTE	<i>Pyrenophora teres</i>	Net blotch	microtiter plate					x			Stammler
PYRNTR	<i>Pyrenophora tritici-repentis</i> ( <i>Drechslera tritici-repentis</i> )	DTR	microtiter plate				x		x	x	Sierotzki
RHYNSE	<i>Rhynchosporium secalis</i>	Scald	microtiter plate	x			x		x		Sierotzki
SCLESC	<i>Sclerotinia sclerotiorum</i>	Rot	tissue culture plate (mycelial plugs)					x	x		Stammler
SEPTTR	<i>Mycosphaerella graminicola</i> ( <i>Septoria tritici</i> )	Leaf spot wheat	radial growth test				x		x	x	Mehl
SEPTTR	<i>Mycosphaerella graminicola</i> ( <i>Septoria tritici</i> )	Leaf spot wheat	microtiter plate				x		x	x	Mehl
SEPTTR	<i>Mycosphaerella graminicola</i> ( <i>Septoria tritici</i> )	Leaf spot wheat	microtiter plate				x		x	x	Sierotzki
SEPTTR	<i>Mycosphaerella graminicola</i> ( <i>Septoria tritici</i> )	Leaf spot wheat	microtiter plate					x	x		Stammler
UNCINE	<i>Erysiphe necator</i> ( <i>Uncinula necator</i> )	Powdery mildew	leaf disc		x		x		x	x	Felsenstein
VENTIN	<i>Venturia inaequalis</i>	Apple scab	whole plant	x			x		x	x	Sierotzki
VENTIN	<i>Venturia inaequalis</i>	Apple scab	spore germination						x	x	Stammler/Klappach
VENTIN	<i>Venturia inaequalis</i>	Apple scab	whole plant	x					x	x	Stammler/Klappach