

Patient ID:

AALL-000000

Patient Name:

Demo Report

Date of Birth:

01/01/1970

Sample Code:

02CKW01

QR-Code:

02CKW22F

Analyzed on:

24/06/2025

Tested Allergens:

295

Test method:

ALEX²

Doctor Information:

Nationwide Pathology

Additional Information:

The internal QC (Plausibility check for GD) was within acceptance range.

Lab report: Summary on detectable sensitisations

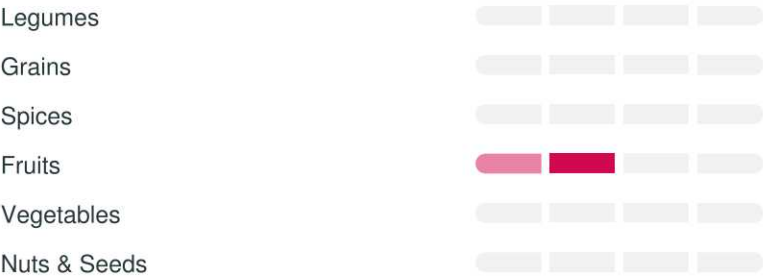
POLLEN



MITES



PLANT-BASED FOOD



INSECTS & VENOMS



MICROORGANISMS



ANIMAL-DERIVED FOOD



EPITHELIAL TISSUES OF ANIMALS



OTHERS



Highest measured IgE concentration per allergen group



Name	E/M	Allergen	Function	kU _A /L
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POLLEN

Grass Pollen

Bermuda grass		Cyn d		0.76 
		Cyn d 1	Beta-Expansin	1.57 
Perennial Ryegrass		Lol p 1	Beta-Expansin	< 0.10 
Bahia grass		Pas n		0.24 
Timothy grass		Phl p 1	Beta-Expansin	< 0.10 
		Phl p 2	Expansin	8.91 
		Phl p 5.0101	Grass Group 5/6	10.93 
		Phl p 6	Grass Group 5/6	19.51 
		Phl p 7	Polcalcin	< 0.10 
		Phl p 12	Profilin	1.70 
Common reed		Phr c		< 0.10 
Cultivated rye, Pollen		Sec c_pollen		7.43 

Tree Pollen

Acacia		Aca m		< 0.10 
Tree of Heaven		Ail a		< 0.10 
Alder		Aln g 1	PR-10	< 0.10 
		Aln g 4	Polcalcin	< 0.10 
Silver birch		Bet v 1	PR-10	< 0.10 
		Bet v 2	Profilin	0.89 
		Bet v 6	Isoflavon Reductase	< 0.10 
Paper mulberry		Bro pa		< 0.10 
Hazel pollen		Cor a_pollen		< 0.10 
		Cor a 1.0103	PR-10	< 0.10 
Sugi		Cry j 1	Pectate Lyase	< 0.10 
Cypress		Cup a 1	Pectate Lyase	< 0.10 
		Cup s		< 0.10 
Beech		Fag s 1	PR-10	< 0.10 
Ash		Fra e		< 0.10 
		Fra e 1	Ole e 1-Family	< 0.10 
Walnut, Pollen		Jug r_pollen		< 0.10 
Mountain cedar		Jun a		< 0.10 
Mulberry tree		Mor r		< 0.10 
Olive		Ole e 1	Ole e 1-Family	< 0.10 

Name	E/M	Allergen	Function	kU _A /L
	⊙	Ole e 9	1,3 β Glucanase	< 0.10
Date palm	⊙	Pho d 2	Profilin	3.58
London plane tree	⊙	Pla a 1	Plant Invertase	< 0.10
	⊙	Pla a 2	Polygalacturonase	< 0.10
	⊙	Pla a 3	nsLTP	< 0.10
Cottonwood	⊙	Pop n		< 0.10
Elm	⊙	Ulm c		< 0.10

Weed Pollen

Common Pigweed	⊙	Ama r		< 0.10
Ragweed	⊙	Amb a		< 0.10
	⊙	Amb a 1	Pectate Lyase	< 0.10
	⊙	Amb a 4	Plant Defensin	< 0.10
Mugwort	⊙	Art v		< 0.10
	⊙	Art v 1	Plant Defensin	< 0.10
	⊙	Art v 3	nsLTP	< 0.10
Hemp	⊙	Can s		< 0.10
	⊙	Can s 3	nsLTP	< 0.10
Lamb's quarter	⊙	Che a		< 0.10
	⊙	Che a 1	Ole e 1-Family	< 0.10
Annual mercury	⊙	Mer a 1	Profilin	2.55
Wall pellitory	⊙	Par j		< 0.10
	⊙	Par j 2	nsLTP	< 0.10
Ribwort	⊙	Pla l		< 0.10
	⊙	Pla l 1	Ole e 1-Family	< 0.10
Russian thistle	⊙	Sal k		< 0.10
	⊙	Sal k 1	Pectin Methylesterase	< 0.10
Nettle	⊙	Urt d		< 0.10

MITES

House Dust Mite

American house dust mite	⊙	Der f 1	Cysteine protease	< 0.10
	⊙	Der f 2	NPC2 Family	< 0.10
European house dust mite	⊙	Der p 1	Cysteine protease	5.54
	⊙	Der p 2	NPC2 Family	< 0.10
	⊙	Der p 5	unknown	< 0.10

Name	E/M	Allergen	Function	kU _A /L
	⊙	Der p 7	Mites Group 7	< 0.10
	⊙	Der p 10	Tropomyosin	< 0.10
	⊙	Der p 11	Myosin, heavy chain	< 0.10
	⊙	Der p 20	Arginine kinase	< 0.10
	⊙	Der p 21	unknown	< 0.10
	⊙	Der p 23	Peritrophin-like protein domain	< 0.10

Storage Mite

Acarus siro	⊙	Aca s		< 0.10
Blomia tropicalis	⊙	Blo t 5	Mites Group 5	< 0.10
	⊙	Blo t 10	Tropomyosin	< 0.10
	⊙	Blo t 21	unknown	< 0.10
Glycyphagus domesticus	⊙	Gly d 2	NPC2 Family	< 0.10
Lepidoglyphus destructor	⊙	Lep d 2	NPC2 Family	< 0.10
Tyrophagus putrescentiae	⊙	Tyr p		< 0.10
	⊙	Tyr p 2	NPC2 Family	< 0.10

MICROORGANISMS & SPORES

Yeast

Malassezia sympodialis	⊙	Mala s 5	unknown	< 0.10
	⊙	Mala s 6	Cyclophilin	< 0.10
	⊙	Mala s 11	Mn Superoxid-Dismutase	< 0.10
Yeast	⊙	Sac c		< 0.10

Moulds

Alternaria alternata	⊙	Alt a 1	Alt a 1-Family	39.77
	⊙	Alt a 6	Enolase	< 0.10
Aspergillus fumigatus	⊙	Asp f 1	Mitogillin Family	< 0.10
	⊙	Asp f 3	Peroxisomal Protein	< 0.10
	⊙	Asp f 4	unknown	< 0.10
	⊙	Asp f 6	Mn Superoxid-Dismutase	< 0.10
Cladosporium herbarum	⊙	Cla h		< 0.10
	⊙	Cla h 8	Short Chain Dehydrogenase	< 0.10
Penicillium chrysogenum	⊙	Pen ch		< 0.10

Name	E/M	Allergen	Function	kU _A /L
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PLANT FOOD

Legumes

Peanut	⊙	Ara h 1	7/8S Globulin	< 0.10
	⊙	Ara h 2	2S Albumin	< 0.10
	⊙	Ara h 3	11S Globulin	< 0.10
	⊙	Ara h 6	2S Albumin	< 0.10
	⊙	Ara h 8	PR-10	< 0.10
	⊙	Ara h 9	nsLTP	< 0.10
	⊙	Ara h 15	Oleosin	< 0.10
Chickpea	⬢	Cic a		< 0.10
Soy	⊙	Gly m 4	PR-10	< 0.10
	⊙	Gly m 5	7/8S Globulin	< 0.10
	⊙	Gly m 6	11S Globulin	< 0.10
	⊙	Gly m 8	2S Albumin	< 0.10
Lentil	⬢	Len c		< 0.10
White bean	⬢	Pha v		< 0.10
Pea	⬢	Pis s		< 0.10

Grains

Oat	⬢	Ave s		< 0.10
Quinoa	⬢	Che q		< 0.10
Common buckwheat	⬢	Fag e		< 0.10
	⊙	Fag e 2	2S Albumin	< 0.10
Barley	⬢	Hor v		< 0.10
Lupine seed	⬢	Lup a		< 0.10
Rice	⬢	Ory s		< 0.10
Millet	⬢	Pan m		< 0.10
Cultivated rye, Cereals	⬢	Sec c_flour		< 0.10
Wheat	⊙	Tri a aA_TI	Alpha Amylase-Trypsin Inhibitor	< 0.10
	⊙	Tri a 14	nsLTP	< 0.10
	⊙	Tri a 19	Omega-5-Gliadin	< 0.10
Spelt	⬢	Tri s		< 0.10
Maize	⬢	Zea m		< 0.10
	⊙	Zea m 14	nsLTP	< 0.10

Name	E/M	Allergen	Function	kU _A /L
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Spices

Paprika	■ ■ ■ ■	Cap a		< 0.10	
Caraway	■ ■ ■ ■	Car c		< 0.10	
Oregano	■ ■ ■ ■	Ori v		< 0.10	
Parsley	■ ■ ■ ■	Pet c		< 0.10	
Anise	■ ■ ■ ■	Pim a		< 0.10	
Mustard	■ ■ ■ ■	Sin		< 0.10	
	●	Sin a 1	2S Albumin	< 0.10	

Fruits

Kiwi	●	Act d 1	Cysteine protease	< 0.10	
	●	Act d 2	TLP	2.44	
	●	Act d 5	Kiwellin	< 0.10	
	●	Act d 10	nsLTP	< 0.10	
Papaya	■ ■ ■ ■	Car p		< 0.10	
Orange	■ ■ ■ ■	Cit s		< 0.10	
Melon	●	Cuc m 2	Profilin	3.23	
Fig	■ ■ ■ ■	Fic c		< 0.10	
Strawberry	●	Fra a 1+3	PR-10+LTP	< 0.10	
Apple	●	Mal d 1	PR-10	< 0.10	
	●	Mal d 2	TLP	< 0.10	
	●	Mal d 3	nsLTP	< 0.10	
Mango	■ ■ ■ ■	Man i		< 0.10	
Banana	■ ■ ■ ■	Mus a		< 0.10	
Avocado	■ ■ ■ ■	Pers a		< 0.10	
Cherry	■ ■ ■ ■	Pru av		< 0.10	
Peach	●	Pru p 3	nsLTP	< 0.10	
Pear	■ ■ ■ ■	Pyr c		< 0.10	
Blueberry	■ ■ ■ ■	Vac m		< 0.10	
Grapes	●	Vit v 1	nsLTP	< 0.10	

Vegetables

Onion	■ ■ ■ ■	All c		< 0.10	
Garlic	■ ■ ■ ■	All s		< 0.10	
Celery	●	Api g 1	PR-10	< 0.10	

Name	E/M	Allergen	Function	kU _A /L
	⊙	Api g 2	nsLTP	< 0.10
	⊙	Api g 6	nsLTP	< 0.10
Carrot	⊙	Dau c		< 0.10
	⊙	Dau c 1	PR-10	< 0.10
Potato	⊙	Sol t		< 0.10
Tomato	⊙	Sola l		< 0.10
	⊙	Sola l 6	nsLTP	< 0.10

Nuts

Cashew	⊙	Ana o		< 0.10
	⊙	Ana o 2	11S Globulin	< 0.10
	⊙	Ana o 3	2S Albumin	< 0.10
Brazil nut	⊙	Ber e		< 0.10
	⊙	Ber e 1	2S Albumin	< 0.10
Pecan	⊙	Car i		< 0.10
Hazelnut	⊙	Cor a 1.0401	PR-10	< 0.10
	⊙	Cor a 8	nsLTP	< 0.10
	⊙	Cor a 9	11S Globulin	< 0.10
	⊙	Cor a 11	7/8S Globulin	< 0.10
	⊙	Cor a 14	2S Albumin	< 0.10
Walnut	⊙	Jug r 1	2S Albumin	< 0.10
	⊙	Jug r 2	7/8S Globulin	< 0.10
	⊙	Jug r 3	nsLTP	< 0.10
	⊙	Jug r 4	11S Globulin	< 0.10
	⊙	Jug r 6	7/8S Globulin	< 0.10
Macadamia	⊙	Mac i 2S Albumin	2S Albumin	< 0.10
	⊙	Mac inte		< 0.10
Pistachio	⊙	Pis v 1	2S Albumin	< 0.10
	⊙	Pis v 2	11S Globulin subunit	< 0.10
	⊙	Pis v 3	7/8S Globulin	< 0.10
Almond	⊙	Pru du		< 0.10

Seeds

Pumpkin seed	⊙	Cuc p		< 0.10
Sunflower seed	⊙	Hel a		< 0.10
Poppy seed	⊙	Pap s		< 0.10

Name	E/M	Allergen	Function	kU _A /L
	⊙	Pap s 2S Albumin	2S Albumin	< 0.10
Sesame	⬢	Ses i		< 0.10
	⊙	Ses i 1	2S Albumin	< 0.10
Fenugreek seeds	⬢	Tri fo		< 0.10

ANIMAL FOOD

Milk

Cow's milk	⬢	Bos d_milk		< 0.10
	⊙	Bos d 4	α-Lactalbumin	< 0.10
	⊙	Bos d 5	β-Lactoglobulin	< 0.10
	⊙	Bos d 8	Casein	< 0.10
Camel	⬢	Cam d		< 0.10
Goat, milk	⬢	Cap h_milk		< 0.10
Mare's milk	⬢	Equ c_milk		< 0.10
Sheep, milk	⬢	Ovi a_milk		< 0.10

Egg

Egg white	⬢	Gal d_white		< 0.10
Egg yolk	⬢	Gal d_yolk		< 0.10
Egg white	⊙	Gal d 1	Ovomucoid	< 0.10
	⊙	Gal d 2	Ovalbumin	< 0.10
	⊙	Gal d 3	Ovotransferrin	< 0.10
	⊙	Gal d 4	Lysozym C	< 0.10
Egg yolk	⊙	Gal d 5	Serum Albumin	< 0.10

Seafood

Herring worm	⊙	Ani s 1	Kunitz Serin Protease Inhibitor	< 0.10
	⊙	Ani s 3	Tropomyosin	< 0.10
Crab	⬢	Chi spp.		< 0.10
Herring	⬢	Clu h		< 0.10
	⊙	Clu h 1	β-Parvalbumin	< 0.10
Brown shrimp	⊙	Cra c 6	Troponin C	< 0.10
Carp	⊙	Cyp c 1	β-Parvalbumin	< 0.10
Atlantic cod	⬢	Gad m		< 0.10
	⊙	Gad m 2+3	β-Enolase & Aldolase	< 0.10

Name	E/M	Allergen	Function	kU _A /L
		Gad m 1	β-Parvalbumin	< 0.10 
Lobster		Hom g		< 0.10 
Shrimp		Lit s		< 0.10 
Squid		Lol spp.		< 0.10 
Common mussel		Myt e		< 0.10 
Oyster		Ost e		< 0.10 
Northern prawn		Pan b		< 0.10 
Scallop		Pec spp.		< 0.10 
Black Tiger Shrimp		Pen m 1	Tropomyosin	< 0.10 
		Pen m 2	Arginine kinase	< 0.10 
		Pen m 3	Myosin, light chain	< 0.10 
		Pen m 4	Sarcoplasmic Calcium Binding Protein	< 0.10 
Thornback ray		Raj c		< 0.10 
		Raj c Parvalbumin	α-Parvalbumin	< 0.10 
Clam		Rud spp.		< 0.10 
Salmon		Sal s		< 0.10 
		Sal s 1	β-Parvalbumin	< 0.10 
Atlantic mackerel		Sco s		< 0.10 
		Sco s 1	β-Parvalbumin	< 0.10 
Tuna		Thu a		< 0.10 
		Thu a 1	β-Parvalbumin	< 0.10 
Swordfish		Xip g 1	β-Parvalbumin	< 0.10 

Meat

House cricket		Ach d		< 0.10 
Cattle, meat		Bos d_meat		< 0.10 
		Bos d 6	Serum Albumin	< 0.10 
Horse, meat		Equ c_meat		< 0.10 
Chicken meat		Gal d_meat		< 0.10 
Migratory locust		Loc m		< 0.10 
Turkey, meat		Mel g		< 0.10 
Rabbit, meat		Ory_meat		< 0.10 
Sheep, meat		Ovi a_meat		< 0.10 
Pork		Sus d_meat		< 0.10 
		Sus d 1	Serum Albumin	< 0.10 
Mealworm		Ten m		< 0.10 

Name	E/M	Allergen	Function	kU _A /L
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INSECTS & VENOMS

Fire ant poison

Fire ant		Sol spp.		< 0.10 
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Honey Bee Venom

Honey bee		Api m		< 0.10 
		Api m 1	Phospholipase A2	< 0.10 
		Api m 10	Icarapin Variant 2	< 0.10 

Wasp Venom

Long-headed wasp		Dol spp		< 0.10 
Paper wasp venom		Pol d		< 0.10 
		Pol d 5	Antigen 5	< 0.10 
Wasp venom		Ves v		< 0.10 
		Ves v 1	Phospholipase A1	< 0.10 
		Ves v 5	Antigen 5	< 0.10 

Cockroach

German Cockroach		Bla g 1	Cockroach Group 1	< 0.10 
		Bla g 2	Aspartyl protease	< 0.10 
		Bla g 4	Lipocalin	< 0.10 
		Bla g 5	Glutathione S-transferase	< 0.10 
		Bla g 9	Arginine kinase	< 0.10 
American Cockroach		Per a		< 0.10 
		Per a 7	Tropomyosin	< 0.10 

ANIMAL ORIGIN

Pet

Dog		Can f_Fd1	Uteroglobulin	< 0.10 
Male dog urine (incl. Can f 5)		Can f_male urine		< 0.10 
Dog		Can f 1	Lipocalin	< 0.10 
		Can f 2	Lipocalin	< 0.10 
		Can f 3	Serum Albumin	< 0.10 

Name	E/M	Allergen	Function	kU _A /L
	⊙	Can f 4	Lipocalin	< 0.10
	⊙	Can f 6	Lipocalin	< 0.10
Guinea pig	⊙	Cav p 1	Lipocalin	< 0.10
Cat	⊙	Fel d 1	Uteroglobulin	< 0.10
	⊙	Fel d 2	Serum Albumin	< 0.10
	⊙	Fel d 4	Lipocalin	< 0.10
	⊙	Fel d 7	Lipocalin	< 0.10
Mouse	⊙	Mus m 1	Lipocalin	< 0.10
Rabbit, epithel	⊙	Ory c 1	Lipocalin	< 0.10
	⊙	Ory c 2	Lipophilin	< 0.10
	⊙	Ory c 3	Uteroglobulin	< 0.10
Djungarian hamster	⊙	Phod s 1	Lipocalin	< 0.10
Rat, epithel	⊙	Rat n		< 0.10

Farm Animals

Cattle	⊙	Bos d 2	Lipocalin	< 0.10
Goat, epithel	⊙	Cap h_epithelia		< 0.10
Horse, epithel	⊙	Equ c 1	Lipocalin	< 0.10
	⊙	Equ c 3	Serum Albumin	< 0.10
	⊙	Equ c 4	Latherin	< 0.10
Sheep, epithel	⊙	Ovi a_epithelia		< 0.10
Pig, epithel	⊙	Sus d_epithelia		< 0.10

OTHERS

Latex

Latex	⊙	Hev b 1	Rubber elongation factor	< 0.10
	⊙	Hev b 3	Small rubber particle protein	< 0.10
	⊙	Hev b 5	unknown	< 0.10
	⊙	Hev b 6.02	Hevein	< 0.10
	⊙	Hev b 8	Profilin	1.56
	⊙	Hev b 11	Class 1 Chitinase	< 0.10

Ficus

Weeping fig	⊙	Fic b		< 0.10
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Name	E/M	Allergen	Function	kU _A /L
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CCD

Hom s Lactoferrin		Hom s LF	CCD	< 0.10
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Parasite

Pigeon tick		Arg r 1	Lipocalin	< 0.10
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Total IgE result: 474 kU/L

Reference range Total IgE
Adults: < 100 kU/L

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Information to cross-reactive allergens

Profilins

Profilins show a very high degree of cross-reactivity.

Depending on the population, up to 50% of pollen allergics are sensitised to profilin (higher rate in Mediterranean countries, lower rate in Northern Europe). The sensitisation to profilin can cause inhalative symptoms. Up to 50% of profilin sensitised patients may have food allergy - oral allergy syndrome in most cases. Raw tomato, melon, watermelon, and citrus fruits are typically associated with profilin. Profilins are not stable to processing.

ALEX² - Number of tested allergen sources: 165



GRASS POLLEN 6
Bahia grass, Bermuda grass, Common reed, Perennial ryegrass, Rye, Timothy grass



TREE POLLEN 19
Acacia, Alder, Arizona Cypress, European Ash, Beech, Cottonwood, Date palm, Elm, Hazel, London Plane Tree, Mediterranean Cypress, Mountain cedar, Mulberry, Olive, Paper mulberry, Silver birch, Sugi, Tree of Heaven, Walnut



WEED POLLEN 10
Annual mercury, Hemp, Lamb's quarter, Mugwort, Nettle, Pigweed, Ragweed, Ribwort, Russian thistle, Wall pellitory



HOUSE DUST MITES & STORAGE MITES 7
Acarus siro, American house dust mite, Blomia tropicalis, European house dust mite, Glycyphagus domesticus, Lepidoglyphus destructor, Tyrophagus putrescentiae



LEGUMES 6
Chickpea, White bean, Lentil, Pea, Peanut, Soy



GRAINS 11
Barley, Buckwheat, Corn, Cultivated rye, Lupine, Millet, Oat, Quinoa, Rice, Spelt, Wheat



SPICES 6
Anise, Caraway, Mustard, Oregano, Paprika, Parsley



FRUITS 15
Avocado, Apple, Banana, Blueberry, Cherry, Fig, Grape, Kiwi, Mango, Muskmelon, Orange, Papaya, Peach, Pear, Strawberry



VEGETABLES 6
Carrot, Celery, Garlic, Onion, Potato, Tomato



NUTS & SEEDS 13
Almond, Brazil nut, Cashew, Hazelnut, Macadamia, Pecan, Pistachio, Walnut, Fenugreek seeds, Poppy seed, Pumpkin seed, Sesame, Sunflower seed



COCKROACH 2
American cockroach, German cockroach



INSECT VENOMS 5
Common wasp venom, Fire ant venom, Honeybee venom, Long-headed wasp venom, Paper wasp venom



FUNGAL SPORES & YEAST 6
Alternaria alternata, Aspergillus fumigatus, Baker's yeast, Cladosporium herbarum, Malassezia sympodialis, Penicilium chrysogenum



MILK 5
Camel's milk, Cow's milk, Goat's milk, Mare's milk, Sheep's milk



EGG 2
Egg white, Egg yolk



FISH & SEAFOOD 20
Anisakis simplex, Atlantic cod, Atlantic herring, Atlantic mackerel, Black-Tiger shrimp, Brown shrimp, Carp, Common mussel, Crab, Lobster, Northern prawn, Oyster, Salmon, Scallop, Shrimp mix, Squid, Swordfish, Thornback ray, Tuna, Venus clam



MEAT 10
Beef, Chicken, Horse, House cricket, Lamb, Mealworm, Migratory locust, Pig, Rabbit, Turkey



PETS 7
Cat, Djungarian hamster, Dog, Guinea pig, Mouse, Rabbit, Rat



FARM ANIMALS 5
Cattle, Goat, Horse, Pig, Sheep



OTHERS 4
Latex, Human lactoferrin, Pigeon tick, Weeping fig