

LAMPIRAN PERATURAN MENTERI PERTANIAN  
 NOMOR : 18/Permentan/OT.140/2/2008  
 TANGGAL : 26 Februari 2008

JENIS-JENIS ORGANISME PENGGANGGU TUMBUHAN KARANTINA  
 DAN NEGARA ASAL AREA PRODUKSI YANG TIDAK BEBAS

I. SERANGGA

NO.	NAMA ILMIAH/ORDO/FAMILI/NAMA UMUM SCIENTIFIC NAME/ TAXON/ COMMON NAME	INANG HOST	GOL GROUP	MEDIA PEMBAWA CARRIER	NEGARA ASAL ORIGIN COUNTRY
1.	<i>Eumerus tuberculatus</i> Rond; Diptera : Syphidae; lesser bulb fly	<i>Allium cepa</i> (bawang bombai/onion); <i>Allium ascalonicum</i> (bawang merah/ shallot); <i>Crinum asiaticum</i> (bakung/ Lily); <i>Allium sativum</i> (bawang putih/garlic)	II	Akar/root, batang/ steam, daun/leaf, umbi/bulb, tanah/ soil	Amerika : USA
2.	<i>Frankliniella occidentalis</i> (Pergande); (= <i>Eutrips helianthi</i> = <i>E. Occidentalis</i> = <i>E. tritici</i> var. <i>californicus</i> = <i>Frankliniella californica</i> = <i>F. canadensis</i> = <i>F. chrysanthem</i> )= <i>F. claripennis</i> = <i>F. conspiciua</i> = <i>F. dahliae</i> = <i>F. dianthi</i> = <i>F. nubila</i> = <i>F. occidentalis f. brunnescens</i> . = <i>F. tritici</i> var. <i>moultoni</i> = <i>F. umbrosa</i> = <i>F. venusta</i> = <i>F. helianthi</i> = <i>F. moultoni</i> = <i>F. trehenei</i> ); <i>Thysanoptera, Thripidae</i> ; western flower thrips alfalfa thrips, flower thrips, western (USA) grass thrips	<i>Allium ascalonicum</i> (bawang merah/ shallot)	II	Batang/steam, daun/leaf, flower/ inflorescence	Afrika : Kenya, Nigeria, South Africa, Swaziland, Zimbabwe , Asia : India, Israel, Japan, Korea, Kuwait, Malaysia, Sri Lanka, Turki. Amerika : Argentina, Brasil, Canada, Chili, Columbia, Costa rica, Dominica, Ecuador, Guatemala, Guyana, Martinique, Mexico, Peru, Puerto rico, USA Eropa : Albania, Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Lithuania, Macedonia, Malta, Netherland, Norway, Poland, Portugal, Roman, Federasi Rusia, Slovak, Slovenia, Spain, Swedia, Swiss, England.
3	<i>Graphognathus leucoloma</i> Boh; (= <i>Naupactus leucoloma</i> = <i>Pantomorus leucoloma</i> ); Coleoptera; Curculionidae; white fringed weevil, whitefringed beetle	<i>Allium ascalonicum</i> (bawang merah/shalof)	II	Batang/steam, daun/leaf, buah/fruit	Afrika : South Afrika Amerika : Argentina, Brasil, Chili, Peru, USA, Uruguay Oceania : Australia, New zealand.

4	<p><i>Delia antigna</i> (Meign);  (= <i>Anthomyia antigna</i> = <i>A. ceparum</i> = <i>Chortophita antigna</i>)</p> <p><i>Delia cepetorum</i> = <i>Hylemya antigna</i> = <i>H. ceparum</i>  = <i>Leptohylemya antigna</i> = <i>Pegomyia ceparum</i>  = <i>P. cepetorum</i> = <i>Phorbia ceparum</i>  <i>P. cepetorum</i> = <i>P. antigna</i>; Diptera: Anthomyiidae ;  onion maggot, onion fly</p>	<p><i>Allium ascalonicum</i>  (bawang merah/shalof),</p> <p><i>Allium porum</i> (bawang putih/leek), <i>Allium sativum</i> (bawang putih/garlic), <i>Allium</i> spp</p>	II	<p>Batang/stem, daun/leaf, umbi/umbi, media tanam/ planting medium.  Tanah/ soil</p>	<p>Afrika : Egypt  Amerika : Antigua-Barbados, Brazil, Canada  Columbia, Mexico, USA  Asia : Armenia, China, Georgia, India, Iran, Iraq  Israel, Japan, Kazakhstan, Korea, Mongolia, Philippines, Turkey  Eropa : Austria, Belgium, Bulgaria, Cyprus, Czech, Slovak, Denmark, Finland, France, Germany, Greece, Hungary, Italy, Malta, Moldova, Netherland, Norway, Poland, Portugal, Roman, Federasi Rusia, Slovak Spain, Swedia, Swiss, England, Yugoslavia  Afrika : Marocco, Tunisia  Amerika : Argentina, Bermuda, Brazil, Chili  Columbia, Costa rica, Guatemala, Jamaica  Mexico, Peru, Puerto Rico, USA, Uruguay, Venezuela  Asia : Armenia, China, Israel, Japan, Sri Lanka  Syria, Turkey  Eropa : Albania, Austria, Belgium, Bulgaria, Czech, Denmark, Faroes Island, Finland, Yugoslavia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Lithuania, Luxembourg, Malta, Netherland, Norway, Poland, Portugal, Roman, Federasi Rusia, Slovak, Spain, Canary Island, Swedia, Swiss, England.</p>
5	<p><i>Peridroma saucia</i> (Hubner);  (= <i>Agrotis angulifera</i> = <i>A. impacta</i> = <i>A. inermis</i> = <i>A. intecta</i>  = <i>A. orfonii</i> = <i>A. saucia</i> = <i>Lycophotia margaritosa</i>  = <i>L. ochronota</i> = <i>L. saucia</i> = <i>Noctua aequa</i> = <i>N. majuscula</i>  = <i>N. margaritosa</i> = <i>N. saucia</i> = <i>Rhyacia margaritosa</i>  = <i>R. saucia</i> = <i>Peridroma margaritosa</i>); Lepidoptera: Noctuidae  variegated cutworm, pirly underwing moth</p>	<p><i>Allium ascalonicum</i>  (bawang merah/shalof)</p>	II	<p>Batang/stem, daun/leaf, bunga/flower/ inflorescence</p>	<p>Afrika : Anggola, Botswana, RD Kongo, Kongo, Lesotho, Madagaskar, Malawi, Mozambique, Namibia, Rwanda, South Africa, Swaziland, Tanzania, Uganda, zambia, Zimbabwe  Afrika : Angola, Benin, Burkina Faso, Kamerun  Afrika Tengah, Chad, RD Kongo, Kongo, Ivory Coast, Gabon, Gambia, Ghana, Guinea -Bissau, Guinea, Kenya, Liberia, Malawi, Mali, Niger, Nigeria, Rwanda, Senegal, Sierra Leone, Togo</p>
6	<p><i>Zonocerus elegans</i> (Thunb);  (= <i>Acrydium sanguinolentum</i> = <i>Gryllus elegans</i>  = <i>Poekilocerus roseipennis</i>); Orthoptera : Acrididae;  elegant grasshopper</p>	<p><i>Allium ascalonicum</i>  (bawang merah/shalof)</p>	II	<p>Tanaman/ plant, tanah/ soil</p>	<p>Afrika : Anggola, Botswana, RD Kongo, Kongo, Lesotho, Madagaskar, Malawi, Mozambique, Namibia, Rwanda, South Africa, Swaziland, Tanzania, Uganda, zambia, Zimbabwe  Afrika : Angola, Benin, Burkina Faso, Kamerun  Afrika Tengah, Chad, RD Kongo, Kongo, Ivory Coast, Gabon, Gambia, Ghana, Guinea -Bissau, Guinea, Kenya, Liberia, Malawi, Mali, Niger, Nigeria, Rwanda, Senegal, Sierra Leone, Togo</p>
7	<p><i>Zonocerus variegatus</i> (L );  (= <i>Acrydium sanguinolentum</i> = <i>Gryllus (Locusta) variegatus</i>  = <i>G. laevis</i> = <i>G. opacus</i>); Orthoptera; Acrididae; variegated grass hopper</p>	<p><i>Allium ascalonicum</i>  (bawang merah/shalof)</p>	II	<p>Tanaman/ plant, tanah/ soil</p>	<p>Afrika : Anggola, Botswana, RD Kongo, Kongo, Lesotho, Madagaskar, Malawi, Mozambique, Namibia, Rwanda, South Africa, Swaziland, Tanzania, Uganda, zambia, Zimbabwe  Afrika : Angola, Benin, Burkina Faso, Kamerun  Afrika Tengah, Chad, RD Kongo, Kongo, Ivory Coast, Gabon, Gambia, Ghana, Guinea -Bissau, Guinea, Kenya, Liberia, Malawi, Mali, Niger, Nigeria, Rwanda, Senegal, Sierra Leone, Togo</p>

II. NEMATODA / NEMATODES

NO.	NAMA ILMIAH/JORDO/FAMILI/NAMA UMUM SCIENTIFIC NAME/ TAXON/ COMMON NAME	INANG HOST	GOL GROUP	MEDIA PEMBAWA CARRIER	NEGARA ASAL ORIGIN COUNTRY
1	<p><i>Aphelenchoides fragariae</i> (Ritzema Bos) (Christie);                      (= <i>Aphelenchoides olesistus</i> = <i>A. olesistus</i> var. <i>longicollis</i>                      = <i>A. pseudolesistus</i> = <i>Aphelenchus fragariae</i> = <i>A. olesistus</i>                      = <i>A. olesistus</i> var. <i>longicollis</i> = <i>A. pseudolesistus</i>.)                      Aphelenchoides; bud and leaf nematoda</p>	<p><i>Allium ascalonicum</i>                      (bawang merah/shalof),  <i>Allium sativum</i>                      (bawang putih/garlic)</p>	II	<p>benih/biji seed/grain),                      buah/fruit, bunga (flower/                      inflorescence), batang/                      steam, daun/leaf, umbi/                      tuber, plantlet, tanah/soil</p>	<p>Amerika : Canada, Mexico, USA                      Eropa : Belgium, England, Denmark,                      Germany, Hungary, Ireland, Italy, Latvia,                      Moldova, Portugal, Poland, Federasi Rusia                      Spain, Swiss, Sweden, Ukraina                      Asia : China, India, Israel, Korea Selatan,                      Kirgiztan, Japan, Turkey                      Oceania : Australia, New Zealand, Papua New,                      Guinea, Hawaii</p>
2	<p><i>Belonolaimus longicaudatus</i> Rau :  <i>Belonolaimidae</i>; sting nematoda</p>	<p><i>Allium cepa</i> (bawang                      bombay/onion</p>	II	<p>Tanah/soil, batu/krikil/                      grave</p>	<p>Amerika : Bahama, Bermuda, Costa Rica,                      Mexico, Puerto rico, USA</p>
3	<p><i>Ditylenchus destructor</i> Thorne;                      Anguinidae, potato rot nematode, potato tuber                      nematode, potato eelworm</p>	<p><i>Allium ascalonicum</i>                      (bawang merah/shalof),  <i>Allium sativum</i>                      (bawang putih/garlic)</p>	II	<p>Umbi/ tuber, batang/                      stem, plantlet, tanah/soil</p>	<p>Eropa : Albania, Austria, Belarusia, Belgium,                      Netherland, Bulgaria, Czech, Estonia, Finland,                      France, Germany, Greece, Hungary, England,                      Ireland, Italy, Latvia, Lithuania, Luxembourg,                      Moldova, Norway, Poland, Roman, Federasi                      Rusia, Slovak, Spain, Swedia, Swis, Ukraina,                      Asia : Azerbaijan, China, India, Iran, Japan,                      Kazakhstan, Korea Selatan, Kirgistan, Malaysia,                      Pakistan, Saudi Arabia, Tajikistan, Turkey,                      Uzbekistan                      Afrika : South Africa                      Amerika : Canada, Equador, Haiti, Mexico, Peru,                      USA                      Oceania : Australia, New Zealand</p>
4	<p><i>Longidorus elongatus</i> (de Man) Thorne &amp; Swanger;                      (= <i>Dorylaimus elongatus</i> = <i>Dorylaimus tenuis</i>, = <i>Longidorus                      menthasolanus</i> = <i>Longidorus monohystera</i> = <i>Trichodorus                      elongatus</i>); Longidoridae; needle nematode,                      tomato black ring eelworm</p>	<p><i>Allium spp.</i>,</p>	II	<p>Akar/ root, tanah/ soil                      (Vektor : raspberry                      ringspot virus, tomato                      black ring virus)</p>	<p>Eropa : Belgium, England, Denmark,                      Estonia, England, Finland, France, Germany,                      Greece, Hungary, Ireland, Italy, Latvia,                      Moldova, Netherland, Norway, Poland, Portugal,                      Roman, Federasi Rusia, Slovak, Spain, Swedia,                      Swis, Ukraina,                      Asia : Georgia, India, Kazakhtan, Pakistan,</p>

5	<p><i>Meloidogyne exigua</i> Goeldi; (=<i>Heterodera exigua</i>); Meloidogynidae; coffee rootknot nematode, Brazilian pyroid coffee nematode, root - knot nematode</p>	<p><i>Allium ascalonicum</i> (bawang merah/ shallot)</p>	<p>II</p>	<p>Akar/ root, tanah/ soil</p>	<p>Tajikistan, Uzbekistan, Vietnam Afrika : South Africa Amerika : Canada, USA Oceania : New Zealand America : Bolivia, Brazil, Chili, Columbia, El Salvador, Dominica, Guatemala, Guadeloupe, Guyana, Honduras, Martinique, Nicaragua, Puerto Rico, Peru, Suriname, Trinidad, Venezuela</p>
6	<p><i>Pratylenchus thornei</i> Sher. &amp; Allen; Pratylenchidae; Thorne's root lesion nematode</p>	<p><i>Allium ascalonicum</i> (bawang merah/ shallot)</p>	<p>II</p>	<p>Akar/ root, tanah/ soil</p>	<p>Eropa : Belgium, Bulgaria, Croatia, Cyprus, Denmark, Yugoslavia, Germany, Greece, Italy, Netherland, Portugal, Federasi Rusia, Spain, England Asia : Afganistan, India, Iran, Israel, Japan, Jordan, Saudi Arabia, Siria, Turkey Afrika : Egypt, Libia, Malawi, Marocco Amerika : Argentina, Mexico, USA Oceania : Australia</p>

III. CENDAWAN / FUNGAL

NO.	NAMA ILMIAH/ORDO/FAMILI/NAMA UMUM SCIENTIFIC NAME/ TAXON/ COMMON NAME	INANG HOST	GOL GROUP	MEDIA PEMBAWA CARRIER	NEGARA ASAL ORIGIN COUNTRY
1	<i>Cercospora dudidae</i> Welles; Anamorphic fungi; leaf spot of onion and garlic, withertif of onion and garlic, leaf spot: onion	<i>Allium ascalonicum</i> (bawang merah/ shallot), <i>Allium schoenoprasum</i> (bawang daun/ leeks, chives)	II	Tanaman/ plant, bagian tanaman vegetatif/ part of vegetative	Asia : India Amerika : Barbados, Jamaica
2	<i>Heterosporium allii</i> - cepae Ranojevic (= <i>Mycosphaerella allii-cepae</i> = <i>Cladosporium allii-cepae</i> = <i>Heterosporium allii</i> = <i>Heterosporium allii</i> var. <i>cepivorum</i> Ascomycetes; onion leafspot	<i>Allium ascalonicum</i> (bawang merah/ shallot),	II	bagian tanaman/ part of plant, tanah/ soil	Eropa : Germany, Swiss, England Asia : Korea Selatan Amerika : Brazil
3	<i>Pyrenochaeta terrestris</i> (Hans) Gorenz, Walker & Larson; Anamorphic fungi ; onion pink root	<i>Allium spp</i>	I	Tanaman/ plant, bagian tanaman / part of plant, media tanam/ planting medium	Eropa : Netherland, Greece, Poland, Israel Afrika : Senegal Amerika : Argentina, USA, Venezuela Oceania : Australia
4	<i>Urocystis cepulae</i> Frost. ; (= <i>Tuburcinia cepulae</i> = <i>Urocystis colchici</i> var. <i>cepulae</i> = <i>Urocystis magica</i> = <i>Urocystes cepulae</i> ); Basidiomycetes; leek smut, onion smut	<i>Allium spp</i>	I	Umbi/ tuber, bagian tanaman/ part of plant	Eropa : Austria, Belgium, Bulgaria, Czech, Slovak, Malta, Denmark Finlandia, France, Germany, Greece, Italy, Netherland, Norway, Roman, Rusia, Slovak, Swedia, Swiss, England, Yugoslavia Asia : China, Taiwan, India, Iran, Iraq, Japan, Kazakhstan, Korea Utara, Korea Selatan, Nepal, Pakistan, Philippines, Tajikistan, Thailand Afrika ; Egypt, Gabon, Marocco Amerika : Canada, Chili, Cuba, Mexico, Peru, Puerto Rico Saint Lucia, USA Oceania : Australia, New Zealand

IV. BAKTERI / BACTERIAL

NO.	NAMA ILMIAH/JORDO/FAMILI/NAMA UMUM SCIENTIFIC NAME/ TAXON/ COMMON NAME	INANG HOST	GOL GROUP	MEDIA PEMBAWA CARRIER	NEGARA ASAL ORIGIN COUNTRY
1	<p><i>Erwinia carotovora</i> subsp. <i>Atroseptica</i> (Van Hall) Jennison; (= <i>Erwinia caricae</i> = <i>Bacillus atrosepticus</i> = <i>Bacillus melanogenes</i> = <i>B. phytophthorus</i>, = <i>Bacterium atrosepticum</i> = <i>B. carotovorum</i> = <i>B. carotovorum</i> var. <i>atrosepticum</i> = <i>B. melanogenum</i> = <i>B. phytophthorum</i> = <i>Erwinia carotovora</i> = <i>E. carotovora</i> pv. <i>Atroseptica</i> = <i>E. dahliae</i> = <i>E. melonis</i> = <i>E. papayae</i> = <i>E. phytophthora</i> = <i>E. phytophthorus</i> = <i>Pectobacterium atrosepticum</i> = <i>P. carotovorum</i> = <i>P. carotovorum</i> var. <i>atrosepticum</i> = <i>P. carotovorum</i> var. <i>carotovorum</i> = <i>P. phytophthorum</i> = <i>Erwinia atroseptica</i> = <i>E. carotovora</i> var. <i>atroseptica</i>); Enterobacteriales: Enterobacteriaceae; blackleg disease</p>	<p><i>Allium ascalonicum</i> (bawang merah/ shallot)</p>	I	<p>Umbi/ tuber, daun/ leaf, akar/ root, batang/ stem, bagian lain dari tanaman/ other part of plant, tanah/ soil</p>	<p>Eropa : Austria, Bulgaria, Cyprus, Czech, Slovak, Denmark, Estonia, France, Germany, Greece, Iceland, Ireland, Italy, Latvia, Lithuania, Malta, Netherland, Norway, Poland, Portugal, Roman, Federasi Rusia, Spain, Swedia, Swiss, England, Yugoslavia. Asia : Azerbaijan, Bhutan, China, India, Iran, Israel, Japan, Kazakhstan, Libanon, Philippines, Turkey, Vietnam. Afrika : Aljazair, Egypt, Mauritius, Marocco, Mosambik, South Africa, Tanzania, Tunisia, Zimbabwe. Amerika ; Argentina, Belize, Bermuda, Bolivia, Brazil, Canada, Chili, Columbia, Costa Rica, Cuba, Dominican Republic, France West Indies, Guadeloupe, Honduras, Martiniqueque, Mexico, Peru, Saint Lucia, Grenadines, Suriname, Trinidad, Tobago, USA. Oceania : Australia, New Zealand</p>
2	<p><i>Pseudomonas syringae</i> pv. <i>Syringae</i> (van Hall) Young et al.; (= <i>Bacillus cerasi</i> = <i>B. gummiis</i> = <i>B. matthiolae</i> = <i>B. spongiosus</i> = <i>Bacterium cerasi</i>, = <i>B. cerasi</i> var. <i>prunicola</i> = <i>B. citrarefaciens</i> = <i>B. citriputeale</i> = <i>B. gummiis</i> = <i>B. hibisci</i> = <i>B. holci</i> = <i>B. matthiolae</i> = <i>B. nectalaspilum</i> = <i>B. prunicola</i> = <i>B. rimaefaciens</i> = <i>B. spongiosum</i> = <i>B. syringae</i> = <i>B. trifoliorum</i> = <i>B. utiformica</i> = <i>B. vignae</i> = <i>B. vignae</i> var. <i>leguminophilum</i> = <i>B. viridifaciens</i> = <i>Chlorobacter syringae</i> = <i>Phytomonas cerasi</i> = <i>P. cerasi</i> var. <i>prunicola</i> = <i>P. citrarefaciens</i> = <i>P. citriputealis</i> = <i>P. hibisci</i> = <i>P. holci</i> = <i>P. matthiolae</i> = <i>P. nectalaspilum</i> = <i>P. prunicola</i> = <i>P. rimaefaciens</i> = <i>P. spongiosa</i> = <i>P. syringae</i> = <i>P. trifoliorum</i> = <i>P. utiformica</i> = <i>P. vignae</i> = <i>P. vignae</i> var. <i>leguminophila</i> = <i>P. viridifaciens</i> = <i>Pseudomonas cerasi</i> = <i>Pseudomonas cerasi</i> f. sp. <i>pyri</i> = <i>P. cerasi</i> var. <i>prunicola</i> = <i>P. cerasi</i> var. <i>pyri</i> = <i>P. citrarefaciens</i> = <i>P. citriputealis</i> = <i>P. hibisci</i> = <i>P. holci</i> = <i>P. matthiolae</i> = <i>P. nectalaspilum</i> = <i>P. oryzicola</i> = <i>P. prunicola</i> = <i>P. spongiosa</i> = <i>P. syringae</i> = <i>P. syringae</i> f. sp. <i>prunicola</i> (Wormald ) = <i>P. trifoliorum</i> = <i>P. utiformica</i> = <i>P. vignae</i></p>	<p><i>Allium</i> spp</p>	I	<p>Biji/ seed, semua bagian tanaman/ all part of plant, media tanaman/ planting medium</p>	<p>Eropa : Belarus, Belgium, Bulgaria, Cyprus, Czech, Slovak, Denmark, Yugoslavia, France, Germany, Greece, Hungary, Ireland, Italy, Moldova, Netherland, Poland, Portugal, Roman, Spain, Swedia, Swiss, Ukraina, England Asia : Azerbaijan, China, Georgia, India, Iran, Israel, Japan, Kazakhstan, Korea Utara, Korea Selatan, Kyrgyzstan, Libanon, Srilangka, Thailand, Turkey, Uzbekistan., Afrika : aljazair, Egypt, Ethiopia, Kenya, Lesotho, Malawi, Marocco, South Africa, Tanzania, Tunisia, Zimbabwe, Uganda. Amerika : Argentina, Barbados, Brazil, Chili, El Salvador, Guatemala, Honduras, Mexico, Panama, Puerto Rico, USA, Uruguay. Oceania : Australia, New Zealand</p>

	<p>=<i>P. vignae</i> var. <i>leguminophila</i> = <i>P. viridifaciens</i> = <i>P. syringae</i> pv. <i>japonica</i>); pseudomonadales : pseudomonadaceae;  bacterial canker or blast(stone and pome fruits),  bacterial brown spot (beans), apoplexy of aprikots,  bacterial black spot  bacterial eye spot, bacterial leaf spot, bacterial sheath rot, blast of citrus, blister spot of apple  peach-tree short-life, pir blossom blight</p>				
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V. TUNGAU/ MITES

NO.	NAMA ILMIAH/ORDO/FAMILI/NAMA UMUM SCIENTIFIC NAME/ TAXON/ COMMON NAME	INANG HOST	GOL GROUP	MEDIA PEMBAWA CARRIER	NEGARA ASAL ORIGIN COUNTRY
1	<i>Petrobia lateens</i> (Tetranychidae) Brown Wheat Mite	<i>Allium sativum</i> (bawang putih/ garlic), <i>Allium cepa</i> bawang bombay/ onion)	II	Daun/ leaf	Eropa : Austria, Denmark, France, Germany, Italy, Netherland, Portugal, Poland, Federasi Rusia, Spain,. Asia : China, India, Republic of Korea. Afrika : Egypt. Amerika : Canada, USA Oceania : Australia
2	<i>Rhizoglyphus echinophus</i> Bulb Mite	<i>Allium sp</i>	II	Tanaman/ plant, dan bagian tanaman bawang - bawang dan ginseng/ part of plant of Alliace and ginseng	Eropa : Former USSR, Hungary, Spain. Asia : Taiwan, Jepang, Korea Amerika : USA (Texas) Oceania : New Zealand

MENTERI PERTANIAN



ANTON APRIYANTONO