

APPENDIX B

Vaccines

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Appendix B

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U.S. Vaccines

Vaccine	Name	Manufacturer	Type	Route	Comments
Anthrax	BioThrax	BioPort	Inactivated Bacterial	SC	
DTaP	Daptacel	sanofi	Inactivated Bacterial	IM	Tetanus & diphtheria toxoids and pertussis vaccine. Not licensed for 5 th dose.
	Infanrix	GlaxoSmithKline	Inactivated Bacterial	IM	Tetanus & diphtheria toxoids and pertussis vaccine.
	Tripedia	sanofi	Inactivated Bacterial	IM	Tetanus & diphtheria toxoids and pertussis vaccine.
DT	(Generic)	sanofi	Inactivated Bacterial Toxoids	IM	Pediatric formulation
DTaP/Hib	TriHIBit	sanofi	Inactivated Bacterial	IM	ActHIB reconstituted with Tripedia. Licensed for 4 th dose of DTaP & Hib series (not primary series).
DTaP/IPV/HepB	Pediarix	GlaxoSmithKline	Inactivated Bacterial & Viral	IM	Approved for doses at 2, 4, 6 months (through 6 years of age). Not licensed for boosters.
<i>Haemophilus influenzae</i> type b (Hib)	PedvaxHIB	Merck	Inactivated Bacterial	IM	PRP-OMP. Polysaccharide conjugate (mening. protein carrier). 2-dose schedule.
	ActHIB	sanofi	Inactivated Bacterial	IM	PRP-T. Polysaccharide conjugate (tetanus toxoid carrier). 3-dose schedule.
Hepatitis A	Havrix	GlaxoSmithKline	Inactivated Viral	IM	Pediatric (≤ 18) and adult formulations. Pediatric = 720 EL.U., 0.5mL Adult = 1,140 EL.U., 1.0mL Minimum age = 1 year.
	Vaqta	Merck	Inactivated Viral	IM	Pediatric (≤ 18) and adult formulations. Pediatric = 25 U, 0.5mL Adult = 50 U, 1.0mL Minimum age = 1 year.
Hepatitis B	Engerix-B	GlaxoSmithKline	Inactivated Viral (recombinant)	IM	Pediatric (≤ 19) and adult formulations. Pediatric formulation is not licensed for adults.
	Recombivax HB	Merck	Inactivated Viral (recombinant)	IM	Pediatric (≤ 19), adult, and dialysis formulations. Two pediatric doses may be substituted for an adult dose.
HepA/HepB	Twinrix	GlaxoSmithKline	Inactivated Viral	IM	Pediatric dose of HepA + adult dose of HepB. Minimum age = 18 years. 3-dose series.

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Vaccine	Name	Manufacturer	Type	Route	Comments
HepB/Hib	Comvax	Merck	Inactivated Bacterial & Viral	IM	Should not be used for HepB birth dose.
Human Papillomavirus (HPV)	Gardasil	Merck	Inactivated Viral (recombinant)	IM	Quadrivalent, Types 6, 11, 16 & 18. Licensed for females 9-26 years.
Influenza	Fluarix	GlaxoSmithKline	Inactivated Viral	IM	Trivalent Types A & B. Minimum age = 18 years.
	Fluvirin	Chiron	Inactivated Viral	IM	Trivalent Types A & B Purified surface antigen. Minimum age = 4 years.
	Fluzone	sanofi	Inactivated Viral	IM	Trivalent Types A & B Subvirion. Minimum age multidose vial = 6 months. Age range 0.25ml prefilled syringe = 6-35 months. Minimum age 0.5ml prefilled syringe = 3 years.
	FluLaval	GlaxoSmithKline	Inactivated Viral	IM	Trivalent Types A & B Minimum age = 18 years.
	Afluria	CSL	Inactivated Viral	IM	Trivalent Types A & B Minimum age = 18 years.
	FluMist	Medimmune	Live attenuated viral	Intra-nasal	Trivalent Types A & B. Age range 5-49 years.
Japanese Encephalitis	JE-Vax	sanofi	Inactivated viral	SC	
MMR	M-M-R II	Merck	Live attenuated viral	SC	Measles, mumps, rubella.
MMRV	ProQuad	Merck	Live attenuated viral	SC	Measles, mumps, rubella, varicella.
Measles	Attenuvax	Merck	Live attenuated viral	SC	Edmonston-Enders strain
Mumps	Mumpsvax	Merck	Live attenuated viral	SC	Jeryl Lynn strain
Rubella	Meruvax II	Merck	Live attenuated viral	SC	RA 27/3 strain
Meningococcal	Menomune	sanofi	Inactivated bacterial	SC	Polysaccharide, containing serogroups A, C, Y, & W-135.
	Menactra	sanofi	Inactivated bacterial	IM	Polysaccharide conjugate (diphtheria toxoid carrier), containing serogroups A, C, Y, & W-135. Age range 2-49.
Pneumococcal	Pneumovax 23	Merck	Inactivated bacterial	SC or IM	Polysaccharide. Contains 23 strains. Minimum age = 2 yrs.
	Prevnar	Wyeth	Inactivated bacterial	IM	Polysaccharide conjugate (diphtheria protein carrier). Contains 7 strains. Routine age range = 2-59 months.
Polio	Ipol	sanofi	Inactivated viral	SC or IM	Trivalent, Types 1, 2, & 3.

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Vaccine	Name	Manufacturer	Type	Route	Comments
Rabies	Imovax Rabies	sanofi	Inactivated viral	IM	
	RabAvert	Chiron	Inactivated viral	IM	
Rotavirus	RotaTeq	Merck	Live viral	Oral	Pentavalent. Age range 6-32 weeks. First dose between 6 & 12 weeks; complete 3-dose series by 32 weeks.
Td	Decavac	sanofi	Inactivated bacterial toxoids	IM	Tetanus/diphtheria toxoids. Adult formulation
	(Generic)	Massachusetts Biological Labs	Inactivated bacterial toxoids	IM	Tetanus/diphtheria toxoids. Adult formulation
Tdap	Boostrix	GlaxoSmithKline	Inactivated bacterial	IM	Tetanus & diphtheria toxoids & pertussis vaccine. Licensed for ages 10-18.
	Adacel	sanofi	Inactivated bacterial	IM	Tetanus & diphtheria toxoids & pertussis vaccine. Licensed for ages 11-64.
TT	(Generic)	sanofi	Inactivated bacterial toxoid	IM	Tetanus toxoid. May be used for adults or children.
Typhoid	Typhim Vi	sanofi	Inactivated bacterial	IM	Polysaccharide.
	Vivotif Berna	Berna	Live bacterial	Oral	Ty21a strain.
Varicella	Varivax	Merck	Live viral	SC	
Vaccinia (Smallpox)	ACAM2000	Acambis	Live Viral	Percutaneous	
Yellow Fever	YF-Vax	sanofi	Live viral	SC	
Zoster (Shingles)	Zostavax	Merck	Live viral	SC	Licensed for age 60 and older.

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Selected *Discontinued* U.S. Vaccines

Trade Name	Antigen(s)	Years
Acel-Imune	DTaP	1991-2001
Attenuvax-Smallpox	Measles-Smallpox	1967
b-CAPSA-1	Hib (polysaccharide)	1985-89
Biavax	Rubella-Mumps (live)	
BioRab	Rabies	1988-2007
Cendevax	Rubella (live)	1969-79
Certiva	DTaP	1998-2000
Dip-Pert-Tet	DTP	
Diptussis	Diphtheria/Pertussis	1949-55
Dryvax	Vaccinia	1944-2008
Ecolarix	Measles-Rubella (live)	
Flu Shield	Influenza	
Fluogen	Influenza	
Heptavax-B	Hepatitis B (plasma derived)	1981-90
HIB-Immune	Hib (polysaccharide)	1985-89
HibTITER	Hib (conjugate)	1990-2007
HIB-Vax	Hib (polysaccharide)	1985-89
Liovax	Smallpox	
Lirubel	Measles-Rubella (live)	1974-78
Lirugen	Measles (live)	1965-76
Lymerix	Lyme disease	1998-2002
M-Vac	Measles	1963-79
M-M-Vax	Measles-Mumps (live)	1973
Meningovax	Meningococcal	
Mevilin-L	Measles (live)	
MOPV	Polio (live, oral -monovalent, types I, II, & III)	
Mumpsvax	Mumps (live)	

Trade Name	Antigen(s)	Years
OmniHIB	Hib (conjugate)	
Orimune	Polio (live, oral)	1961-2000
Perdipigen	Diphtheria/Pertussis	1949-55
Pfizer-Vax Measles-K	Measles (inactivated)	1963-68
Pfizer-Vax Measles-L	Measles (live)	1965-70
Pnu-Imune	Pneumococcal (polysaccharide 14- or 23-valent)	1977-83
Poliovax	Polio (inactivated)	1988-91
ProHIBIT	Hib (conjugate)	1987-2000
Purivax	Polio (inactivated)	1956-65
Quadrigen	DTP-Polio	1959-68
Rabies Iradogen	Rabies	1908-57
RotaShield	Rotavirus	1998-99
Rubelogen	Rubella (live)	1969-72
Rubeovax	Measles (live)	1963-71
Serobacterin	Pertussis	1945-54
Solgen	DTP	1962-77
Tetra-Solgen	DTP-Polio	1959-68
Tetramune	DTP-Hib	
Tetravax	DTP-Polio	1959-65
Topagen	Pertussis (intranasal)	
Tri-Immunol	DTP	
Tridipigen	DTP	
Trinfagen No. 1	DT-Polio	Early 1960s
Trinivac	DTP	1952-64
Trivivac	DTP	
Wyvac	Rabies	1982-85

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Vaccine Excipient & Media Summary

This section begins with a summary of the excipients included in licensed vaccines in the United States, as of the revision date at the bottom of the page.

Excipients are inactive ingredients of a drug product necessary for production of a finished pharmaceutical formulation.

After the list of excipients is a list of culture media used in the manufacturing process of vaccines licensed in the United States.

Growth media are culture materials used to produce mass quantities of a microorganism antibody, or other immunologic agent, suitable for further processing into a finished pharmaceutical product.

All reasonable efforts have been made to ensure the accuracy of this information, but manufacturers may change product contents before that information is reflected here.

Excipients Included in US Licensed Vaccines*		
Excipient	Use	Vaccine
Albumin, egg (Ovalbumin)	Growth medium	Rabies (<i>RabAvert</i>)
Albumin, human serum	Component of growth medium, protein stabilizer	Measles (<i>Attenuvax</i>), MMR (<i>MMR-II</i>), Mumps (<i>Mumpsvax</i>), Rabies (<i>Imovax</i>), Rubella (<i>Meruvax II</i>)
Albumin or serum, bovine	Component of growth medium, protein stabilizer	Hepatitis A (<i>Havrix</i> , <i>Vaqta</i>), Measles (<i>Attenuvax</i>), MMR (<i>MMR-II</i>), Mumps (<i>Mumpsvax</i>), Rabies (<i>Imovax</i> , <i>RabAvert</i>), Rubella (<i>Meruvax II</i>), Vaccinia (<i>Dryvax</i>), Varicella (<i>Varivax</i>)
Aluminum hydroxide	Adjuvant	Anthrax (<i>BioThrax</i>), DTaP (<i>Infanrix</i>), DTaP-Hep B-IPV (<i>Pediarix</i>), DT (Massachusetts), Td (Massachusetts), Hepatitis A (<i>Havrix</i>), Hepatitis A-Hepatitis B (<i>Twinrix</i>), Hepatitis B (<i>Engerix-B</i>), Tdap (<i>Boostrix</i>)
Aluminum phosphate	Adjuvant	DTaP (<i>Daptacel</i>), Td (Aventis Pasteur, Massachusetts), Hepatitis A-Hepatitis B (<i>Twinrix</i>), Pneumococcal (<i>Prevnar</i>), Rabies (<i>BioRab</i>)
Aluminum potassium sulfate	Adjuvant	DTaP (<i>Daptacel</i> , <i>Tripedia</i>), DTaP-Hib (<i>TriHIBit</i>), DT (Aventis Pasteur)
Amino acids	Component of growth medium	Anthrax (<i>BioThrax</i>), Hepatitis A (<i>Havrix</i>), Hepatitis A-Hepatitis B (<i>Twinrix</i>), Td (Aventis Pasteur), Typhoid oral (<i>Vivotif</i>)
Ammonium sulfate	Protein fractionation	DTaP-Hib (<i>TriHIBit</i>), Hib (<i>Act-HIB</i>)
Amphotericin B	Antibacterial	Rabies (<i>RabAvert</i>)
Ascorbic acid	Antioxidant	Typhoid oral (<i>Vivotif</i>)
Bactopectone	Component of growth medium	Influenza (varies seasonally)

Vaccine Excipient & Media Summary

Excipients Included in US Licensed Vaccines*		
Excipient	Use	Vaccine
Beta-propiolactone	Viral inactivator	Influenza (<i>Fluvirin</i>), Rabies (<i>Imovax, RabAvert</i>)
Benzethonium chloride	Preservative	Anthrax (<i>BioThrax</i>)
Brilliant green	Dye	Vaccinia (<i>Dryvax-historic</i>)
Chlortetracycline	Antibacterial	Rabies (<i>RabAvert</i>), Vaccinia (<i>Dryvax</i>)
DNA	Manufacturing residue	Hepatitis A (<i>Vaqta</i>)
Ethylenediamine-tetraacetic acid sodium (EDTA)	Preservative	Rabies (<i>RabAvert</i>), Varicella (<i>Varivax</i>)
Egg protein	Manufacturing residue	Influenza (all brands), Yellow fever (<i>YF-Vax</i>)
Formaldehyde, formalin	Antimicrobial, preservative	Anthrax (<i>BioThrax</i>), DTaP (all brands), DTaP-Hep B-IPV (<i>Pediarix</i>), DTaP-Hib (<i>TriHIBit</i>), DT (all brands), Td (all brands), Hepatitis A (<i>Havrix, Vaqta</i>), Hepatitis A-Hepatitis B (<i>Twinrix</i>), Hib (<i>ActHIB</i>), Hib-Hepatitis B (<i>Comvax</i>), Influenza (<i>Fluzone</i>), Japanese encephalitis (<i>JE-Vax</i>), Poliovirus inactivated (<i>Ipol</i>), Tdap (<i>Boostrix</i>)
Gelatin	Stabilizer in freeze-drying, solvent	DTaP (<i>Tripedia</i>), DTaP-Hib (<i>TriHIBit</i>), Influenza (<i>Fluzone</i>), Japanese encephalitis (<i>JE-Vax</i>), Measles (<i>Attenuvax</i>), Mumps (<i>Mumpsvax</i>), Rubella (<i>Meruvax II</i>), MMR (<i>MMR-II</i>), Rabies (<i>RabAvert</i>), Typhoid oral (<i>Vivotif</i>), Varicella (<i>Varivax</i>), Yellow fever (<i>YF-Vax</i>)
Gentamicin	Antibacterial	Influenza (<i>FluMist</i>)
Glutaraldehyde	Toxin detoxifier	DTaP (<i>Infanrix</i>), DTaP-Hep B-IPV (<i>Pediarix</i>), Tdap (<i>Boostrix</i>)
Glycerin	Solvent	Vaccinia (<i>DryVax</i>)
Glycine	Protein stabilizer	DT (most brands), Td (most brands)
Hydrochloric acid	Adjust pH	DTaP (most brands), DT (most brands)
Lactose	Stabilizer in freeze-drying, filling	BCG (<i>Tice</i>), Hib (some packages), Meningococcal (<i>Menomune</i>), Typhoid oral (<i>Vivotif</i>)
Magnesium stearate	Lubricant for capsule filling	Typhoid oral (<i>Vivotif</i>)
Monosodium glutamate	Stabilizer	Influenza (<i>FluMist</i>), Varicella (<i>Varivax</i>)
Mouse serum protein	Manufacturing residue	Japanese encephalitis (<i>JE-Vax</i>)

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Vaccine Excipient & Media Summary

Excipients Included in US Licensed Vaccines*		
Excipient	Use	Vaccine
MRC-5 cellular protein	Manufacturing residue	Hepatitis A (<i>Havrix, Vaqta</i>), Hepatitis A-Hepatitis B (<i>Twinrix</i>), Rabies (<i>Imovax</i>), Poliovirus inactivated (<i>Poliovax</i>), Varicella (<i>Varivax</i>)
Neomycin	Antibacterial	DTaP-Hep B-IPV (<i>Pediarix</i>), Hepatitis A-Hepatitis B (<i>Twinrix</i>), Influenza (<i>Fluvirin</i>), Measles (<i>Attenuvax</i>), Mumps (<i>Mumpsvac</i>), Rubella (<i>Meruvax II</i>), MMR (<i>MMR-II</i>), Poliovirus inactivated (<i>Ipol</i>), Rabies (<i>Imovax, RabAvert</i>), Vaccinia (<i>DryVax</i>), Varicella (<i>Varivax</i>)
Phenol	Preservative, antibacterial	Pneumococcal (<i>Pneumovax-23</i>), Typhoid inactivated (<i>Typhim Vi</i>) Vaccinia (<i>Dryvax</i>)
Phenol red (phenolsulfonphthalen)	pH indicator, dye	Rabies (<i>Imovax</i>)
2-Phenoxyethanol	Preservative	DTaP (<i>Infanrix, Daptacel</i>), DTaP-Hep B-IPV (<i>Pediarix</i>), Hepatitis A (<i>Havrix</i>), Hepatitis A-Hepatitis B (<i>Twinrix</i>), Poliovirus inactivated (<i>Ipol</i>), Td (Aventis Pasteur)
Phosphate buffers (eg, disodium, monosodium, potassium, sodium dihydrogenphosphate)	Adjust pH	DTaP (most brands), DT (most brands), Hib (<i>Act-Hib</i>), Hepatitis A (<i>Havrix</i>), Hepatitis A-Hepatitis B (<i>Twinrix</i>), Hepatitis B (<i>Engerix-B</i>), Influenza (<i>FluMist</i>), Measles (<i>Attenuvax</i>), Meningococcal (<i>Menactra</i>), Mumps (<i>Mumpsvac</i>), Poliovirus inactivated (<i>Ipol</i>), Rabies (<i>BioRab</i>), Rubella (<i>Meruvax II</i>), MMR (<i>MMR-II</i>), Typhoid inactivated (<i>Typhim Vi</i>), Varicella (<i>Varivax</i>)
Polydimethylsiloxane	Antifoaming agent	Typhoid inactivated (<i>Typhim Vi</i>)
Polyethylene glycol p-isoctylphenyl ether (Triton X-100)	Nonionic surfactant (viral inactivation)	Influenza (<i>Fluzone</i>)
Polymyxin B	Antibacterial	DTaP-Hep B-IPV (<i>Pediarix</i>), Influenza (<i>Fluvirin</i>), Poliovirus inactivated (<i>Ipol</i>), Vaccinia (<i>Dryvax</i>)
Polyoxyethylene9-10 nonylphenol (Triton N-101, octoxynol 9)	Nonionic surfactant (viral inactivation)	Influenza (<i>Fluvirin</i>)
Polysorbate 20	Surfactant	Hepatitis A (<i>Havrix</i>), Hepatitis A-Hepatitis B (<i>Twinrix</i>)
Polysorbate 80	Surfactant	DTaP (<i>Infanrix, Tripedia</i>), DTaP-Hep B-IPV (<i>Pediarix</i>), DTaP-Hib (<i>TriHIBit</i>), Tdap (<i>Boostrix</i>)
Potassium glutamate	Stabilizer	Rabies (<i>RabAvert</i>)

Vaccine Excipient & Media Summary

Excipients Included in US Licensed Vaccines*		
Excipient	Use	Vaccine
Sodium acetate	Adjust pH	DT (some brands), Td (some brands)
Sodium borate	Adjust pH	Hepatitis A (<i>Vaqta</i>), Hib-Hepatitis B (<i>Comvax</i>)
Sodium chloride	Adjust tonicity	Most vaccines, including Anthrax, BCG, Measles, Meningococcal (<i>Menactra</i>), Mumps, MMR, Pneumococcal, Polio inactivated, Rabies, Rubella, Typhoid inactivated, Varicella, Yellow fever, Tdap (<i>Boostrix</i>)
Sodium hydroxide	Adjust pH	DT (most brands), Td (most brands)
Sorbitol	Stabilizer, solvent	Measles (<i>Attenuvax</i>), Mumps (<i>Mumpsvax</i>), Rubella (<i>Meruvax II</i>), MMR (<i>MMR-II</i>), Yellow fever (<i>YF-Vax</i>)
Streptomycin	Antibacterial	Poliovirus inactivated (<i>Ipol</i>), Vaccinia (<i>Dryvax</i>)
Sucrose	Stabilizer	DTaP-Hib (<i>TriHIBit</i>), Hib (<i>Act-HIB</i>), Influenza (<i>FluMist</i>), Measles (<i>Attenuvax</i>), Mumps (<i>Mumpsvax</i>), MMR (<i>MMR-II</i>), Typhoid oral (<i>Vivotif</i>), Varicella (<i>Varivax</i>)
Thimerosal	Preservative in some multi-dose containers (see package labeling for precise content)	DTaP (some multidose containers), DTaP-Hib (<i>TriHIBit</i>), DT (some multidose containers), Td (some multidose containers), Hepatitis B (some multidose containers), Hib (some multidose containers), Influenza (some multidose containers), Japanese encephalitis (<i>JE-Vax</i>), Meningococcal (<i>Menomune</i>), Rabies (<i>Bio-Rab</i>). Some single-dose containers contain trace amounts of thimerosal from the production process, but substantially lower concentrations than if used as a preservative. Consult product monographs and labeling for details.
Urea	Stabilizer	Varicella vaccine (<i>Varivax</i> , refrigerator stable)
Vitamins unspecified	Component of growth medium	Anthrax (<i>BioThrax</i>), Rabies (<i>Imovax</i>), Td (Aventis Pasteur)
Yeast protein	Component of growth medium	DTaP-Hib B-IPV (<i>Pediarix</i>), Hepatitis A-Hepatitis B (<i>Twinrix</i>), Hepatitis B (<i>Engerix-B</i> , <i>Recombivax-HB</i>), Hib (<i>HibTiter</i>), Hib-Hepatitis B (<i>Comvax</i>)

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Vaccine Excipient & Media Summary

Vaccine-Production Media*	
Vaccine Culture Media	Vaccine(s)
Bovine protein	DTaP-Hep B-IPV (poliovirus component, <i>Pediarix</i>), Pneumococcal (<i>Pneumovax-23</i>), Typhoid oral (<i>Vivotif</i>)
Calf skin	Vaccinia (<i>Dryvax</i>)
Chick embryo fibroblast tissue culture	Measles (<i>Attenuvax</i>), Mumps (<i>Mumpsvax</i>), combination vaccines containing them, Rabies (<i>RabA-vert</i>)
Chick kidney cells	Influenza (master viruses for <i>FluMist</i>)
Chicken embryo (fertilized egg)	Influenza (all brands), Yellow fever (<i>YF-Vax</i>)
Cohen-Wheeler, modified (pertussis components)	DTaP (alternate is Stainer-Scholte media)
Fenton media containing bovine casein	Tdap (<i>Boostrix</i>)
Human diploid tissue culture, MRC-5	Hepatitis A (<i>Havrix</i> , <i>Vaqta</i>), Hepatitis A-Hepatitis B (<i>Twinrix</i>), Poliovirus inactivated (<i>Poliovax</i>), Rabies (<i>Imovax</i>), Varicella (<i>Varivax</i>)
Human diploid tissue culture, WI-38	Rubella (<i>Meruvax II</i>), combination vaccines containing it, Varicella (<i>Varivax</i>)
Lathan medium derived from bovine casein	DTaP (<i>Infanrix</i> , tetanus component), DTaP-Hep B-IPV (<i>Pediarix</i>), Tdap (<i>Boostrix</i>)
Linggoud-Fenton medium containing bovine extract	DTaP (<i>Infanrix</i> diphtheria component), DTaP-Hep B-IPV (<i>Pediarix</i>), Tdap (<i>Boostrix</i>)
Monkey kidney tissue culture, Vero (Vervet or African green monkeys)	DTaP-Hep B-IPV (poliovirus component, <i>Pediarix</i>), Poliovirus inactivated (<i>Ipol</i>)
Mouse brain	Japanese encephalitis (<i>JE-Vax</i>)
Mueller-Hinton agar medium	Meningococcal conjugate (<i>Menactra</i>)
Mueller-Miller medium	Diphtheria and tetanus vaccines (most brands), meningococcal conjugate (<i>Menactra</i>)
Rhesus fetal lung tissue culture	Rabies (<i>BioRab</i>)
Stainer-Scholte medium	DTaP (<i>Daptacel</i> , <i>Infanrix</i> , pertussis component), DTaP-Hep B-IPV (<i>Pediarix</i>), Tdap (<i>Boostrix</i>)
Soy peptone broth	Pneumococcal (<i>Prevnar</i>)
Synthetic/semi-synthetic	Anthrax (<i>BioThrax</i>), BCG (<i>Tice</i>), DT (all brands), Td (all brands), Hib (all brands), Meningococcal (<i>Menomune</i>), Pneumococcal (<i>Pneumovax-23</i>), Typhoid inactivated (<i>Typhim Vi</i>)
Watson-Scherp medium	Meningococcal conjugate (<i>Menactra</i>)
Yeast or yeast extract (typically <i>Saccharomyces cerevisiae</i>)	Hepatitis A-Hepatitis B (<i>Twinrix</i>), Hepatitis B (<i>Engerix-B</i> , <i>Recombivax-HB</i>), Hib (<i>HibTiter</i>), Hib-Hepatitis B (<i>Comvax</i>), Medium for growing <i>Corynebacterium diphtheriae</i> strain C7 (b197) to obtain CRM ₁₉₇ protein for conjugation to polysaccharides (<i>HibTiter</i> , <i>Prevnar</i>).

* Proprietary names appear in italics.

Vaccine Excipient & Media Summary

- References:** Canadian National Advisory Committee on Immunization. Statement on thimerosal. *Can Comm Dis Rep.* 2003;29(ACS-1):1-10.
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Reprinted courtesy of Grabenstein JD. *ImmunoFacts: Vaccines & Immunologic Drugs.* St. Louis, MO: Wolters Kluwer Health, Inc.; 2006.

Vaccine Excipient & Media Summary, Part 2

Excipients Included in U.S. Vaccines, by Vaccine

Includes vaccine ingredients (e.g., adjuvants and preservatives) as well as substances used during the manufacturing process, including vaccine-production media, that are removed from the final product and present only in trace quantities.
In addition to the substances listed, most vaccines contain Sodium Chloride (table salt).

Vaccine	Contains
Anthrax (BioThrax)	Aluminum Hydroxide, Amino Acids, Benzethonium Chloride, Formaldehyde or Formalin, Inorganic Salts and Sugars, Vitamins
BCG (Tice)	Asparagine, Citric Acid, Lactose, Glycerin, Iron Ammonium Citrate, Magnesium Sulfate, Potassium Phosphate
DTaP (Daptacel)	Aluminum Phosphate, Ammonium Sulfate, Casamino Acid, Dimethyl-beta-cyclodextrin, Formaldehyde or Formalin, Glutaraldehyde, 2-Phenoxyethanol
DTaP (Infanrix)	Aluminum Hydroxide, Bovine Extract, Formaldehyde or Formalin, Glutaraldehyde, 2-Phenoxyethanol, Polysorbate 80
DTaP (Tripedia)	Aluminum Potassium Sulfate, Ammonium Sulfate, Bovine Extract, Formaldehyde or Formalin, Gelatin, Polysorbate 80, Sodium Phosphate, Thimerosal*
DTaP/Hib (TriHIBit)	Aluminum Potassium Sulfate, Ammonium Sulfate, Bovine Extract, Formaldehyde or Formalin, Gelatin, Polysorbate 80, Sucrose, Thimerosal*
DTaP/HepB/IPV (Pediatrix)	Aluminum Hydroxide, Aluminum Phosphate, Bovine Protein, Lactalbumin Hydrolysate, Formaldehyde or Formalin, Glutaraldehyde, Monkey Kidney Tissue, Neomycin, 2-Phenoxyethanol, Polymyxin B, Polysorbate 80, Thimerosal*, Yeast Protein
DT (sanofi)	Aluminum Potassium Sulfate, Bovine Extract, Formaldehyde or Formalin, Thimerosal (multi-dose) or Thimerosal* (single-dose)
DT (Massachusetts)	Aluminum Hydroxide, Formaldehyde or Formalin
Hib (ACTHib)	Ammonium Sulfate, Formaldehyde or Formalin, Sucrose
Hib (PedvaxHib)	Aluminum Hydroxyphosphate Sulfate
Hib/Hep B (Comvax)	Amino Acids, Aluminum Hydroxyphosphate Sulfate, Dextrose, Formaldehyde or Formalin, Mineral Salts, Sodium Borate, Soy Peptone, Yeast Protein
Hep A (Havrix)	Aluminum Hydroxide, Amino Acids, Formaldehyde or Formalin, MRC-5 Cellular Protein, Neomycin Sulfate, 2-Phenoxyethanol, Phosphate Buffers, Polysorbate
Hep A (Vaqta)	Aluminum Hydroxyphosphate Sulfate, Bovine Albumin or Serum, DNA, Formaldehyde or Formalin, MRC-5 Cellular Protein, Sodium Borate
Hep B (Engerix-B)	Aluminum Hydroxide, Phosphate Buffers, Thimerosal*, Yeast Protein
Hep B (Recombivax)	Aluminum Hydroxyphosphate Sulfate, Amino Acids, Dextrose, Formaldehyde or Formalin, Mineral Salts, Potassium Aluminum Sulfate, Soy Peptone, Yeast Protein
HepA/HepB (Twinrix)	Aluminum Hydroxide, Aluminum Phosphate, Amino Acids, Dextrose, Formaldehyde or Formalin, Inorganic Salts, MRC-5 Cellular Protein, Neomycin Sulfate, 2-Phenoxyethanol, Phosphate Buffers, Polysorbate 20, Thimerosal*, Vitamins, Yeast Protein

Vaccine	Contains
Human Papillomavirus (HPV) (Gardasil)	Amino Acids, Amorphous Aluminum Hydroxyphosphate Sulfate, Carbohydrates, L-histidine, Mineral Salts, Polysorbate 80, Sodium Borate, Vitamins
Influenza (Afluria)	Beta-Propiolactone, Calcium Chloride, Neomycin, Ovalbumin, Polymyxin B, Potassium Chloride, Potassium Phosphate, Sodium Phosphate, Sodium Taurodeoxychoalate.
Influenza (Fluarix)	Egg Albumin (Ovalbumin), Egg Protein, Formaldehyde or Formalin, Gentamicin, Hydrocortisone, Octoxynol-10, α -Tocopheryl Hydrogen Succinate, Polysorbate 80, Sodium Deoxycholate, Sodium Phosphate, Thimerosal*
Influenza (Flulaval)	Egg Albumin (Ovalbumin), Egg Protein, Formaldehyde or Formalin, Sodium Deoxycholate, Phosphate Buffers, Thimerosal
Influenza (Fluvirin)	Beta-Propiolactone , Egg Protein, Neomycin, Polymyxin B, Polyoxyethylene 9-10 Nonyl Phenol (Triton N-101, Octoxynol 9), Thimerosal (multidose containers), Thimerosal* (single-dose syringes)
Influenza (Fluzone)	Egg Protein, Formaldehyde or Formalin, Gelatin, Octoxinol-9 (Triton X-100), Thimerosal (multidose containers)
Influenza (FluMist)	Chick Kidney Cells, Egg Protein, Gentamicin Sulfate, Monosodium Glutamate, Sucrose Phosphate Glutamate Buffer
IPV (Ipol)	Calf Serum Protein, Formaldehyde or Formalin, Monkey Kidney Tissue, Neomycin, 2-Phenoxyethanol, Polymyxin B, Streptomycin,
Japanese Encephalitis (JE-Vax)	Formaldehyde or Formalin, Gelatin, Mouse Serum Protein, Polysorbate 80, Thimerosal
Measles (Attenuvax)	Amino Acid, Bovine Albumin or Serum, Chick Embryo Fibroblasts, Gelatin, Glutamate, Human Albumin, Neomycin, Phosphate, Sodium Phosphate, Sorbitol, Sucrose, Vitamins
Meningococcal (Menactra)	Formaldehyde or Formalin, Phosphate Buffers
Meningococcal (Menomune)	Lactose, Thimerosal (10-dose vials only)
Mumps (Mumpsvax)	Amino Acid, Bovine Albumin or Serum, Chick Embryo Fibroblasts, Human Serum Albumin, Gelatin, Glutamate, Neomycin, Phosphate Buffers, Sorbitol, Sucrose, Vitamins
MMR (MMR-II)	Amino Acid, Bovine Albumin or Serum, Chick Embryo Fibroblasts, Human Serum Albumin, Gelatin, Glutamate, Neomycin, Phosphate Buffers, Sorbitol, Sucrose, Vitamins
MMRV (ProQuad)	Bovine Albumin or Serum, Gelatin, Human Serum Albumin, Monosodium L-glutamate, MRC-5 Cellular Protein, Neomycin, Sodium Phosphate Dibasic, Sodium Bicarbonate, Sorbitol, Sucrose, Potassium Phosphate Monobasic, Potassium Chloride, Potassium Phosphate Dibasic
Pneumococcal (Pneumovax)	Bovine Protein, Phenol
Pneumococcal (Prevnar)	Aluminum Phosphate, Amino Acid, Soy Peptone, Yeast Extract
Rabies (Imovax)	Human Serum Albumin, Beta-Propiolactone, MRC-5 Cellular Protein, Neomycin, Phenol Red (Phenolsulfonphthalein), Vitamins

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Vaccine	Contains
Rabies (RabAvert)	Amphotericin B, Beta-Propiolactone, Bovine Albumin or Serum, Chicken Protein, Chlortetracycline, Egg Albumin (Ovalbumin), Ethylenediamine-Tetraacetic Acid Sodium (EDTA), Neomycin, Potassium Glutamate
Rotavirus (RotaTeq)	Cell Culture Media, Fetal Bovine Serum, Sodium Citrate, Sodium Phosphate Monobasic Monohydrate, Sodium Hydroxide Sucrose, Polysorbate 80
Rubella (Meruvax II)	Bovine Albumin or Serum, Gelatin, Human Serum Albumin, Neomycin, Phosphate Buffers, Sodium Phosphate, Sorbitol
Td (Decavac)	Aluminum Potassium Sulfate, Bovine Extract, Formaldehyde or Formalin, 2-Phenoxyethanol, Peptone, Thimerosal*
Td (Massachusetts)	Aluminum Hydroxide, Aluminum Phosphate, Formaldehyde or Formalin, Thimerosal (some multidose containers)
Tdap (Adacel)	Aluminum Phosphate, Formaldehyde or Formalin, Glutaraldehyde, 2-Phenoxyethanol
Tdap (Boostrix)	Aluminum Hydroxide, Bovine Extract, Formaldehyde or Formalin, Glutaraldehyde, Polysorbate 80
Typhoid (inactivated – Typhim Vi)	Disodium Phosphate, Monosodium Phosphate, Phenol, Polydimethylsiloxane, Hexadecyltrimethylammonium Bromide
Typhoid (oral – Ty21a)	Amino Acids, Ascorbic Acid, Bovine Protein, Casein, Dextrose, Galactose, Gelatin, Lactose, Magnesium Stearate, Sucrose, Yeast Extract
Vaccinia (ACAM2000)	Glycerin, Human Serum Albumin, Mannitol, Monkey Kidney Cells, Neomycin, Phenol, Polymyxin B
Varicella (Varivax)	Bovine Albumin or Serum, Ethylenediamine-Tetraacetic Acid Sodium (EDTA), Gelatin, Monosodium L-Glutamate, MRC-5 DNA and Cellular Protein, Neomycin, Potassium Chloride, Potassium Phosphate Monobasic, Sodium Phosphate Monobasic, Sucrose
Yellow Fever (YF-Vax)	Egg Protein, Gelatin, Sorbitol
Zoster (Zostavax)	Bovine Calf Serum, Hydrolyzed Porcine Gelatin, Monosodium L-glutamate, MRC-5 DNA and Cellular Protein, Neomycin, Potassium Phosphate Monobasic, Potassium Chloride, Sodium Phosphate Dibasic, Sucrose

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Where “thimerosal” is marked with an asterisk () it indicates that the product should be considered equivalent to thimerosal-free products. This vaccine may contain trace amounts (<3 mcg) of mercury left after post-production thimerosal removal, but these amounts have no biological effect. *JAMA* 1999;282(18) and *JAMA* 2000;283(16)

Adapted from Grabenstein JD. *ImmunoFacts: Vaccines & Immunologic Drugs*. St. Louis, MO: Wolters Kluwer Health Inc.; 2006 and individual products’ package inserts.

All reasonable efforts have been made to ensure the accuracy of this information, but manufacturers may change product contents before that information is reflected here.

Latex in Vaccine Packaging

If a person reports a severe (anaphylactic) allergy to latex, vaccines supplied in vials or syringes that contain natural rubber should not be administered, unless the benefit of vaccination outweighs the risk of an allergic reaction to the vaccine. For latex allergies other than anaphylactic allergies (e.g., a history of contact allergy to latex gloves), vaccines supplied in vials or syringes that contain dry natural rubber or rubber latex can be administered.

The following table is accurate, to the best of our knowledge, as of February 2008. If in doubt, check the package insert for the vaccine in question.

Vaccine		Latex?
Anthrax (BioThrax)		YES – Vial
Comvax		YES – Vial
DTaP	Daptacel	YES – Vial
	Infanrix	YES – Syringe NO – Vial
	Tripedia	YES – Vial
DT (Generic)		YES – Vial
Hib	HibTITER	YES – Vial
	PedvaxHIB	Yes – Vial
	ActHIB	YES – Diluent vial NO – Lyophilized vaccine vial
Hepatitis A	Havrix	YES – Syringe NO – Vial
	Vaqta	YES – Vial YES – Syringe
Hepatitis B	Engerix-B	YES – Syringe NO – Vial
	Recombivax IIB	YES – Vial
HPV (Gardasil)		NO
Influenza	Fluarix	YES – Syringe
	Fluvirin	NO
	Fluzone	NO
	FluLaval	NO
	Afluria	YES – Vial YES – Syringe
	FluMist	NO
Japanese Encephalitis (JE-Vax)		NO
MMR (M-M-R II)		NO
MMRV (ProQuad)		NO
Measles (Attenuvax)		NO
Mumps (Mumpsvax)		NO
Rubella (Meruvax II)		NO
Meningococcal	Menomune	YES – Vial
	Menactra	YES – Vial NO – Syringe
Pediarix		YES – Syringe NO – Vial

Appendix B

Vaccine		Latex?
Pneumococcal	Pneumovax 23	NO
	Prennar	YES – Vial
Polio (IPOL)		YES – Syringe NO – Vial
Rabies	Imovax Rabies	NO
	RabAvert	NO
Rotavirus (RotaTeq)		NO
Td	Decavac	NO – Vial NO – Syringe
	Generic	YES – Vial YES – Syringe
Tdap	Adacel	NO
	Boostrix	YES – Syringe NO – Vial
TriHIBit		YES – Vial
Twinrix		YES – Syringe NO – Vial
Typhoid	Typhim Vi	NO
	Vivotif Berna	N/A
Varicella (Varivax)		NO
Vaccinia (Smallpox) (ACAM2000)		NO
Yellow Fever (YF-Vax)		YES – Vial
Zoster (Shingles) (Zostavax)		NO

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Vaccine	Brand Name	Manufacturer	Thimerosal Concentration ¹	Mercury mcg/0.5 ml
Anthrax	BioThrax	BioPort Corporation	0	0
DTaP	Tripedia	sanofi pasteur	*	*
	Infanrix	GlaxoSmithKline	0	0
	DAPTACEL	sanofi pasteur	0	0
DTaP-HepB-IPV	Pediarix	GlaxoSmithKline	*	*
DTaP-Hib	TriHIBit	sanofi pasteur	*	*
DTwP	All Products		.01%	25
DT	Diphtheria & Tetanus Toxoids Adsorbed USP	multi-dose	.01%	25
		single dose	*	*
Td	DECAVAC	sanofi pasteur	*	*
	Tetanus and Diphtheria Toxoids Adsorbed	sanofi pasteur	*	*
Tdap	ADACEL	sanofi pasteur	0	0
	Boostrix	GlaxoSmithKline	0	0
Tetanus Toxoid	Tetanus Toxoid Adsorbed USP		.01%	25
	Tetanus Toxoid Adsorbed Adult Use	sanofi pasteur	.01%	25
	Booster		.01%	25
Hib	ActHIB	sanofi pasteur	0	0
	HibTITER	Wyeth-Ayerst	0	0
	PedvaxHIB liquid(2)	Merck	0	0
Hib/HepB	Comvax (3)	Merck	0	0
Hepatitis A	Havrix	GlaxoSmithKline	0	0
	Vaqta adult/pediatric	Merck	0	0
Hepatitis B	Engerix-B preservative free	GlaxoSmithKline	*	*
	Recombivax HB preservative free	Merck	0	0
Hep A-B	Twinrix	GlaxoSmithKline	*	*
HPV	Gardasil	Merck	0	0
Influenza 2006/7 Formula	Afluria	multi-dose	.01%	24.5
		single dose	0	0
	Fluarix	GlaxoSmithKline	*	*
	FluLaval	GlaxoSmithKline	.01%	25
	FluMist	MedImmune	0	0
	Fluvirin	Novartis	.01%	24.5
	Fluzone	5 mL vial	.01%	25
	Fluzone No Preservative	0.25 mL pre-filled syringe 0.5 mL pre-filled syringe 0.5 mL vial	sanofi pasteur	0 0 0
IPV	IPOL	sanofi pasteur	0	0
Meningococcal	Menactra	sanofi pasteur	0	0
	MENOMUNE-A/C/Y/W-135	multi-dose	.01%	25
		single dose	*	*
MMR	M-M-R II	Merck	0	0
MMR-Varicella	ProQuad	Merck	0	0
Polio	IPOL	sanofi pasteur	0	0
Pneumococcal	Pneumovax	Wyeth-Ayerst	0	0
	Pneumovax 23	Merck	0	0
Rabies		Chiron	0	0
	IMOVAX	sanofi pasteur	0	0
Rotavirus	RotaTeq	Merck	0	0
Typhoid Fever	Typhim Vi	sanofi pasteur	0	0
	Vivotif	Berna Biotech	0	0
Varicella Zoster	Varivax	Merck	0	0
	Zostavax	Merck	0	0
Yellow Fever	YF-VAX	sanofi pasteur	0	0

1. A concentration of 1:10,000 is equivalent to a 0.01% concentration. Thimerosal is approximately 50% Hg by weight. A 1:10,000 concentration contains 25 mcg of Hg per 0.5 mL.
 2. A previously marketed lyophilized preparation contained 0.005% thimerosal.
 3. COMVAX is not approved for use under 6 weeks of age because of decreased

response to the Hib component.
 * This product should be considered equivalent to thimerosal-free products. This vaccine may contain trace amounts (<0.3 mcg) of mercury left after post-production thimerosal removal; these amounts have no biological effect, JAMA 1999;282(18) and JAMA 2000;283(16).

For current version of this table, see <http://www.vaccinesafety.edu/thi-table.htm>

B

Appendix B

Pediatric/VFC Vaccine Price List

Vaccine	NDC #	Brandname/ Tradename	Packaging	CDC Cost/Dose	Private Sector Cost/Dose	Contract End Date	Manufacturer	Purchase Funds
DTaP 1	49281-298-10	Tripedia®	10 pack - 1 dose vials	\$12.65	\$21.40	03/31/2008	Sanofi Pasteur	VFC/317/STATE
	49281-286-10	DAPTACEL®	10 pack - 1 dose vials	\$13.25	\$22.04			VFC/317/STATE
DTaP 1	58160-0840-11	Infanrix®	10 pack - 1 dose vials	\$13.25	\$20.96	03/31/2008	GlaxoSmithKline	VFC/317/STATE
	58160-0840-46		5 pack - 1 dose T-L syringes. No Needle	\$13.25	\$21.44			VFC/317/STATE
DTaP-Hep B-IPV 4	58160-0811-11	Pediarix®	10 pack - 1 dose vials	\$47.25	\$70.72	03/31/2008	GlaxoSmithKline	VFC/317/STATE
	58160-0811-46		5 pack - 1 dose T-L syringes. No Needle	\$47.25	\$70.72			VFC/317/STATE
DTaP-Hib 2	49281-597-05	TriHIBit®	5 pack - 1 dose vials	\$25.91	\$42.89	03/31/2008	Sanofi Pasteur	VFC/317/STATE
e-IPV 5	49281-860-10	IPOL®	10 dose vials	\$11.06	\$22.80	03/31/2008	Sanofi Pasteur	VFC/317/STATE
	49281-860-55		10-pack - 1 dose syringes, No Needle	\$11.06	\$26.34			VFC/317/STATE
Hepatitis B-Hib 3	0006-4898-00	COMVAX®	10 pack - 1 dose vials	\$27.75	\$43.56	03/31/2008	Merck	VFC/317/STATE
Hepatitis A Pediatric 5	0006-4831-41	VAQTA®	10 pack - 1 dose vials	\$12.25	\$30.37	03/31/2008	Merck	VFC/317/STATE
Hepatitis A Pediatric 5	58160-0825-11	Havrix®	10 pack - 1 dose vials	\$12.25	\$28.74	03/31/2008	GlaxoSmithKline	VFC/317/STATE
	58160-0825-46		5 pack - 1 dose T-L syringes. No Needle	\$12.25	\$28.74			VFC/317/STATE
Hepatitis A-Hepatitis B 18 only 3	58160-0815-11	Twinrix®	10 pack - 1 dose vials	\$37.64	\$78.16	03/31/2008	GlaxoSmithKline	VFC/317/STATE
	58160-0815-46		5 pack - 1 dose T-L syringes, No Needle	\$37.64	\$78.42			VFC/317/STATE
Hepatitis B 5 Pediatric/Adolescent	58160-0821-11	ENGERIX B®	10 pack - 1 dose vials	\$9.10	\$21.37	03/31/2008	GlaxoSmithKline	VFC/317/STATE
	58160-0821-46		5 pack - 1 dose T-L syringes, No Needle	\$9.10	\$21.37			VFC/317/STATE
Hepatitis B 5 Pediatric/Adolescent	0006-4981-00	RECOMBIVAX HB®	10 pack - 1 dose vials	\$9.50	\$23.20	03/31/2008	Merck	VFC/317/STATE
Hepatitis B 2 dose 5 Adolescent (11-15)	0006-4995-41	RECOMBIVAX HB®	10 pack - 1 dose vials	\$24.25	\$59.09	03/31/2008	Merck	VFC/317/STATE
Hib 5	0006-4897-00	PedvaxHIB®	10 pack - 1 dose vials	\$10.83	\$22.77	03/31/2008	Merck	VFC/317/STATE
Hib 5	49281-545-05	ActHIB®	5 pack - 1 dose vials	\$8.28	\$21.78	03/31/2008	Sanofi Pasteur	VFC/317/STATE
HPV - Quadrivalent Human Papillomavirus Types 6, 11, 16 and 18 Recombinant 5	0006-4045-41	Gardasil®	10 pack - 1 dose vials	\$96.75	\$125.29	03/31/2008	Merck	VFC/317/STATE
Measles, Mumps, Rubella and Varicella (MMR-V) 2	0006-4999-00	ProQuad®	10 pack - 1 dose vials	\$77.75	\$124.37	03/31/2008	Merck	VFC/317/STATE
	49281-589-05	Menactra®	1 dose vials	\$73.09	\$93.87	03/31/2008	Sanofi Pasteur	VFC/317/STATE
49281-589-05	5 pack - 1 dose vials		\$73.09	\$93.87	VFC/317/STATE			
Measles, Mumps and Rubella (MMR) 1	0006-4681-00	MMRii®	10 pack - 1 dose vials	\$17.60	\$46.54	03/31/2008	Merck	VFC/317/STATE
Pneumococcal 7-valent 5 (Pediatric)	0005-1970-50	Prevnar®	10 pack - 1 dose syringes, No Needle	\$62.14	\$78.44	03/31/2008	Wyeth/Lederle	VFC/317/STATE
Rotavirus, Live, Oral, Pentavalent 5	0006-4047-41	RotaTeq®	10 pack - 1 dose 2mL tubes	\$55.05	\$69.59	03/31/2008	Merck	VFC/317/STATE

Tetanus & Diphtheria Toxoids ³	49281-291-10	DECAVAC®	10 pack - 1 dose syringes No Needle	\$17.38	\$19.14	03/31/2008	Sanofi Pasteur	VFC/317/STATE
	49281-291-83		10 pack - 1 dose vials	\$17.38	\$19.14			VFC/317/STATE
Tetanus Toxoid, Reduced Diphtheria Toxoid and Acellular Pertussis ¹	58160-0842-11	BOOSTRIX®	10 pack - 1 dose vials	\$30.75	\$36.25	03/31/2008	GlaxoSmithKline	VFC/317/STATE
	58160-0842-46		5 pack - 1 dose TL syringes, No Needle	\$30.75	\$36.25			VFC/317/STATE
Tetanus Toxoid, Reduced Diphtheria Toxoid and Acellular Pertussis ¹	49281-400-10	ADACEL®	10 pack - 1 dose vials	\$30.75	\$37.43	03/31/2008	Sanofi Pasteur	VFC/317/STATE
Varicella ⁵	0006-4827-00	Varivax®	10 pack - 1 dose vials	\$59.15	\$77.51	03/31/2008	Merck	VFC/317/STATE

- ¹ Vaccine cost includes \$2.25 dose Federal Excise Tax
² Vaccine cost includes \$3.00 per dose Federal Excise Tax
³ Vaccine cost includes \$1.50 per dose Federal Excise Tax
⁴ Vaccine cost includes \$3.75 per dose Federal Excise Tax
⁵ Vaccine cost includes \$0.75 per dose Federal Excise Tax
⁶ Vaccines which contain Thimerosal as a preservative

These price lists are current as of
 February 5, 2008

 Find current Vaccine Price Lists online at
www.cdc.gov/vaccines/programs/vfc/cdc-vac-price-list.htm

Appendix B

Adult Vaccine Price List

Vaccine	NCD #	Brandname/ Tradename	Packaging	CDC Cost/ Dose	Private Sector Cost/ Dose	Contract End Date	Manufacturer	Purchase Funds
Hepatitis A Adult ⁵	00006-4841-00	VAQTA®	1 dose vials	\$18.85	\$63.51	6/30/08	Merck	317/STATE
	00006-4841-41		10 pack - 1 dose vials	\$18.85	\$59.99			
Hepatitis A Adult ⁵	58160-0835-11	Havrix®	10 pack - 1 dose vials	\$18.86	\$58.28	6/30/08	GlaxoSmithKline	317/STATE
	58160-0826-46		5 pack - 1 dose T-L syringes, No Needle	\$18.86	\$58.29			
Hepatitis A-Hepatitis B Adult ³	58160-0850-11	Twinrix®	10 pack - 1 dose vials	\$37.64	\$83.10	6/30/08	GlaxoSmithKline	317/STATE
	58160-0815-46		5 pack - 1 dose T-L syringes, No Needle	\$37.64	\$82.83			
Hepatitis B-Adult ⁵	00006-4995-00	RECOMBIVAX HB®	1 dose vials	\$23.78	\$59.70	6/30/08	Merck	317/STATE
	00006-4995-41		10 pack - 1 dose vials	\$23.37	\$59.09			
Hepatitis B-Adult ⁵	58160-0857-11	ENGERIX-B®	10 pack - 1 dose vials	\$24.73	\$50.35	6/30/08	GlaxoSmithKline	317/STATE
	58160-0821-46		5 pack - 1 dose T-L syringes, No Needle	\$24.73	\$50.35			
Pneumococcal Polysaccharide (23 Valent)	00006-4739-00	Pneumovax®	1 pack - 5 dose vials	\$14.86	\$28.69	6/30/08	Merck	317/STATE
	00006-4943-00		10 pack - single dose 0.5 mL vials	\$16.91	\$32.20			
Tetanus & Diphtheria Toxoids ^{6 3}	14362-0111-01	Tetanus & Diphtheria Toxoids Adsorbed for Adults	1 pack - 15 dose vials	\$10.36	\$15.99	12/31/07	Massachusetts Biologic Labs (Henry Schein Inc.)	317/STATE
Tetanus & Diphtheria Toxoids ^{6 3}	14362-0111-01	Tetanus & Diphtheria Toxoids Adsorbed for Adults	1 pack - 15 dose vials	\$9.86	\$19.19	6/30/08	Massachusetts Biologic Labs (ASD Specialty Healthcare, Inc.)	317/STATE
Zoster Vaccine Live	00006-4963-41	Zostavax®	10 pack - 1 dose vial	\$107.67	\$153.93	6/30/08	Merck	317/STATE
	00006-4963-00		1 pack-single dose 0.65mL vials	\$113.16	\$161.50			

¹ Vaccine cost includes \$2.25 dose Federal Excise Tax

² Vaccine cost includes \$3.00 per dose Federal Excise Tax

³ Vaccine cost includes \$1.50 per dose Federal Excise Tax

⁴ Vaccine cost includes \$3.75 per dose Federal Excise Tax

⁵ Vaccine cost includes \$2.75 per dose Federal Excise Tax

⁶ Vaccines which contain Thimerosal as a preservative

Influenza Vaccine Price List

Vaccine	NCD #	Brandname/ Tradename	Packaging	CDC Cost/ Dose	Private Sector Cost/ Dose	Contract End Date	Manufacturer	Purchase Funds
Influenza ^{6 5} (Age 6 months and older)	49281-380-15	Fluzone®	10 dose vials	\$10.153	\$11.72	2/28/08	Sanofi Pasteur	VFC/317/STATE
Influenza ⁵ (Age 6-35 months)	49281-007-25	Fluzone® Pediatric dose Preservative- free	10 pack - 1 dose syringes	\$12.77	\$14.26	2/28/08	Sanofi Pasteur	VFC/317/STATE
Influenza ⁵ (Age 36 months and older)	49281-007-50	Fluzone® No- Preservative	10 pack - 1 dose syringes	\$13.751	\$15.36	2/28/08	Sanofi Pasteur	VFC/317/STATE
	49281-007-10		10 pack - 1 dose vials	\$13.751	\$15.36			
Influenza ^{6 5} (Age 4 years and older)	66521-110-10	Fluvirin®	10 dose vials	\$10.16	\$12.48	2/28/08	Novartis	VFC/317/STATE
	66521-110-01	Fluvirin® Preservative- free	10 pack-1 dose syringes	\$12.61	\$15.54	2/28/08	Novartis	VFC/317/STATE
Influenza ⁵ (Age 18 years and older)	58160-0874-46	Fluarix™	5 pack - 1 dose syringes	\$12.00	\$13.25	2/28/08	GlaxoSmithKline	317/STATE
Influenza ⁵ Live, Intranasal (Age 5-49 years)	66019-0105-01	FluMist®	10 pack - 1 dose sprayers	\$17.65	\$17.95	2/28/08	MedImmune	VFC/317/STATE

⁵ Vaccine cost includes \$0.75 per dose Federal Excise Tax

⁶ Vaccines which contain Thimerosal as a preservative

Foreign Language Terms

Aids to translating foreign immunization records.

Table 1: Disease, Vaccine, and Related Terms. This table lists terms for vaccine-preventable diseases, vaccines, and other items that might be found on an immunization record, by language.

Table 2: Trade Names. This table lists the names of specific vaccines that are used, or have been used, internationally, along with the manufacturer and country or region, when known.

These tables have been adapted from lists developed by
the Minnesota Department of Health Immunization Program
(now maintained by the Immunization Action Coalition)
and the
Washington State Department of Health.

See also:

<http://www.immunize.org/izpractices/p5120.pdf>

<http://www.immunize.org/izpractices/p5121.pdf>

<http://www.doh.wa.gov/cfh.immunize/documents/schmanul.pdf> (Appendix E)

These lists are not comprehensive and, while we have checked and rechecked sources, we do not claim complete accuracy.

Foreign Vaccines

Table 1: Disease, Vaccine, and Related Terms

Albanian	
Difteria	Diphtheria
Fruthi	Measles
Pertusisi	Pertussis
Tetanozi	Tetanus
Arabic	
Alhasiba	Rubella
As'al	Pertussis
Athab	Mumps
Difteria	Diphtheria
El Safra	Hepatitis
Has 'ba	Measles
Shel'el	Polio
Bosnian	
Beseže	BCG
Detepe	DTP
Difterija	Diphtheria
Dječja paraliza	Polio
Gripa	Influenza
Male boginje	Rubella
Ospice	Measles
Rubeola	Rubella
Upala pluća	Pneumonia
Veliki boginje	Smallpox
Veliki kašalj	Pertussis
Zauške	Mumps
Žutica	Hepatitis
Croatian	
Beseže	BCG
Detepe	DTP
Difterija	Diphtheria
Dječja paraliza	Polio
Gripa	Influenza
Hri pavac	Pertussis
Kašalj hripavac	Pertussis
Upala pluća	Pneumonia
Veliki boginje	Smallpox
Vodene kozice	Varicella
Zapaljenje	Hepatitis
Zaušnjaci	Mumps
Žutica	Hepatitis
Czech	
Davivý Kasel	Pertussis
Difterie	Diphtheria
Hepatitida	Hepatitis

Parotitida	Mumps
Pertuse	Pertussis
Poliomyelitis	Polio
Spalnicky	Measles
Subinuirá	Influenza
Zardenky	Rubella
Zaškrt	Diphtheria
Danish	
Bornelammelse	Polio
Difteritis	Diphtheria
DKTP	DTP + IPV
Faaresyge	Mumps
Kighoste	Pertussis
Leverbetaendelse	Hepatitis
Meslinger	Measles
Rode Hunde	Rubella
Stivkrampe	Tetanus
Dutch	
BMR	MMR
Bof	Mumps
Difterie	Diphtheria
Gelekoorts	Yellow Fever
Gordelroos	Varicella
Griep	Influenza
Kinderverlamming	Polio
Kinkhoest	Pertussis
Longontsteking	Pneumonia
Mazelen	Measles
Pokken	Smallpox
Rode hond	Rubella
Stijfkramp	Tetanus
Tering	Tuberculosis
Ethiopian (Oromiffaa)	
Cufaa	Tetanus
Difteeriyaa	Diphtheria
Gifira	Measles
Gifira farangli	Rubella
Laamsheesaa	Polio
Qakkee	Pertussis
Shimbiraa	Hepatitis
Finnish	
Hinkuyska	Pertussis
Jaykkakouristus	Tetanus
Kurkkumata	Diphtheria
Lapsihalvaus	Polio
Sikotauti	Mumps

Tuhkarokko	Measles
Vihurirokko	Rubella
French	
Coqueluche	Pertussis
Diphthérie	Diphtheria
DTC, DT Coq	DTP
Fievre jaune	Yellow Fever
Grippe	Influenza
l'Haemophilus b	Hib
Oreillons	Mumps
Poliomyélite	Polio
ROR	MMR
Rougeole	Measles
Rubéole	Rubella
Tétanos	Tetanus
Tuberculose	Tuberculosis
Varirole	Smallpox
German	
Diphtherie	Diphtheria
FSME	Tick-borne encephalitis
Grippe	Influenza
Keuchhusten	Pertussis
Kinderlähmung	Polio
Masern	Measles
Pocken	Smallpox
Röteln	Rubella
Starrkrampf	Tetanus
Tuberkulose	Tuberculosis
Wundstarrkrampf	Tetanus
Zei Genpeter	Mumps
Greek	
Διφθερίτιδα, Τέτανος και Κοκκύτης	DTP
Ο Αιμόφιλος της γρίππης τύπου Β	Hib
Μηνιγγοκοκκική Ασθένεια ομάδας C	Meningococcal C
Ιλαρά - Μαγουλάδες - Ερυθρά	MMR
Πολιομυελίτιδα	Polio
Τέτανος και Διφθερίτιδα	Td
Haitian Creole	
Difteri	Diphtheria
Epatit	Hepatitis
Flou	Influenza
Koklich	Pertussis
Lawoujòl, Laroujòl	Measles
Malmouton	Mumps
Palyo	Polio
Ribeyòl	Rubella
Saranpyon	Varicella
Tetanòs	Tetanus

Hmong	
Hawb pob	Pertussis
Kabmob siab hom B	Hepatitis B
Kub cer	Diphtheria
Qhua Maj	Rubella
Qhua Pias	Measles
Qog	Mumps
Tuag tes tuag taw	Polio
Ua npuag	Tetanus
Indonesian	
Batuk rejan	Pertussis
Beguk	Mumps
Biring Peluh	Rubella
Campak	Measles
Difteri	Diphtheria
Penyakit lumpuh	Polio
Radang hati	Hepatitis
Italian	
Antipolio inattivato	IPV
Difterite	Diphtheria
Emofilo b	Hib
Epatite	Hepatitis
Morbillo	Measles
MPR (morbillo, parotite, rosolia)	MMR
Parotite	Mumps
Pertosse	Pertussis
Poliomielite	Polio
Polmonite	Pneumonia
Rosolia	Rubella
Tetano	Tetanus
Tosse Asinina	Pertussis
Tubercolosi	Tuberculosis
Vaioloso	Smallpox
Japanese	
A型肝炎	Hepatitis A
B型肝炎	Hepatitis B
Fushin (風疹)	Rubella
Hashika (麻疹 or はしか)	Measles
Hashofu (破傷風)	Tetanus
Hyakaseki (百日咳)	Pertussis
Jifuteria (ジフテリア)	Diphtheria
Otafukukuaze (流行性耳下腺炎 or おたふくかぜ)	Mumps
Sh naimahi (ポリオ)	Polio
三種混合	DTaP
水痘 or みずぼうそう	Varicella
肺炎球菌	Pneumococcal
インフルエンザ菌	Hib

Appendix B

日本脳炎	Japanese Encephalitis
インフルエンザ	Influenza
ツベルクリン	PPD
追加接種	Booster
Malay	
Batok rejan	Pertussis
Penyaakit bengok	Mumps
Sakit champak	Measles
Sakit rengkong	Diphtheria
Norwegian	
Difteri	Diphtheria
Kikhoste	Pertussis
Kopper	Smallpox
Kusma	Mumps
Leverbetennelse	Hepatitis
Meslinger	Measles
Poliomyelitt	Polio
Røde hunder	Rubella
Stivkrampe	Tetanus
Vannkopper	Varicella
Polish	
Błonicy, Błonica, Błonnica	Diphtheria
Dyfteria	Diphtheria
Gruzlica	Tuberculosis
Grypa	Influenza
Koklusz	Pertussis
Krztuscowi, Krztusiec	Pertussis
Odra	Measles
Ospa	Smallpox
Paraliz dziecięcy	Polio
Pojar German	Rubella
Pojarul, Pojarului	Measles
Przypominajace	Booster
Rozyczka	Rubella
Swinka	Mumps
Tezec, Tężcowi	Tetanus
Zapalenie płuc	Pneumonia
Zapalenie wtroby	Hepatitis
Portugese	
Cachumba (papeira)	Mumps
Coqueluche	Pertussis
Difteria	Diphtheria
Gripe	Influenza
Hepatite	Hepatitis
Paralísia infantil	Polio
Parotidite epidémica	Mumps
Poliomielite	Polio
Rúbéola	Rubella
Sarampo	Measles

Tetânica, Tétano	Tetanus
Triplíce	DTP
VAHB	Hepatitis B Vaccine
VAP	Polio Vaccine
VAS	Measles Vaccine
VASPR	MMR
VAT	Tetanus Vaccine
Romanian	
AR	Measles
Difteria (Difteriei)	Diphtheria
Di Te	DT
Di-Te-Per	DTP
Febra Galbena	Yellow Fever
Gripa	Influenza
Hepatita	Hepatitis
Holera	Cholera
Oreion, Oreionului	Mumps
Pneumoniei	Pneumonia
Poliomielitic	Polio
Rubeolei, Rubeola	Rubella
Rujeola, Rujeolei	Measles
Tetanos, Tetanosul, Tetanosului	Tetanus
Tuse convulsiva, Tusei convulsive	Pertussis
Varicelă, Varicelei	Varicella
Variola, Variolei	Smallpox
Russian	
Бцж	BCG
АКДС	DTP
Дифтерит, Дифтерия	Diphtheria
Гемеофлюс инфлюэнцы типа Б	Hib
Гепатит	Hepatitis
Грипп	Influenza
Корь	Measles
Свинка, Паротит	Mumps
Коклюш	Pertussis
Воспале лёгких Пневмония	Pneumonia
Полиомиелит	Polio
Краснуха	Rubella
Оспа	Smallpox
Столбняк, Столбняка	Tetanus
Туберкулез	Tuberculosis
Ветрянка	Varicella
Манту	Mantoux (TB Test)
Вакцина	Vaccine
Вакцинация	Series
Ревакцинация	Booster
Samoan	
Mami	Mumps
Misela	Measles

Rupela	Rubella
Serbian	
Beseže	BCG
Detepe	DTP
Diferija	Diphtheria
Dječja paraliza	Polio
Gripa	Influenza
Hri povac	Pertussis
Male boginje	Rubella
Pljuskavice, Kozice	Varicella
Upala pluća	Pneumonia
Veliki boginje	Smallpox
Veliki kašalj	Pertussis
Zapaljenje	Hepatitis
Zaušnjaci	Mumps
Žutica	Hepatitis
Slovak	
Chripka	Influenza
Cierny kasel	Pertussis
Diftéria	Diphtheria
DiTePe	DTP
Hepatitida	Hepatitis
Krzamak	Measles
Osycky	Measles
Parotitis	Mumps
Polyomyelitida	Polio
Priusnica	Mumps
Ruzienka	Rubella
Zápal' plúc	Pneumonia
Spanish	
Cólera	Cholera
Coqueluche	Pertussis
Difteria	Diphtheria
Doble Antigen	Td (Mexico)
Doble Viral	Measles-Rubella (Mexico)
Duple	DT (Cuba)
Gripe	Influenza
Hemófilo tipo b	Hib
Numonía	Pneumonia
Paperas, Parotiditis	Mumps
Poliomielitis	Polio
Pulmonía	Pneumonia
Rubéola	Rubella
Sarampión, Sarampión Comun	Measles
Sarampión Aleman	Rubella
SPR	MMR
Tetánica, Tétano	Tetanus
Tos Ferina	Pertussis
Varicela	Varicella
Viruela	Smallpox

Somali	
Bus-buska	Varicella
Cagaarshowga	Hepatitis
Cuno xanuun	Diphtheria
Dabayl	Polio
Duf	Polio
Furuq	Smallpox
Gowracato	Diphtheria
Gurra dhaabsis	Mumps
Hablobaas	Varicella
Haemophilus nooca b	Hib
Inflowense	Influenza
Jadeeco	Measles
Jadeeco been, Jadeeco jarmalka	Rubella
Joonis	Hepatitis
Kix	Pertussis
Qaamow-Qashiir	Mumps
Qaaxo-Tiibi	Tuberculosis
Qanja Barar	Mumps
Sambabaha	Pneumonia
Tallaakla Qaaxada	BCG
Taytano	Tetanus
Wareento	Pneumonia
Xiiqdheer	Pertussis
Swedish	
Difteri	Diphtheria
Duplex	DT
Gula Febern	Yellow Fever
Kikhosta	Pertussis
Kolera	Cholera
Mässling, Masslingormerly	Measles
Pässjura	Mumps
Polio	Polio
Röda Hund	Rubella
Smittkoppor	Smallpox
Stelkramp	Tetanus
Trippel	DTP
Tagalog	
Beke	Mumps
Dipterya	Diphtheria
Pertusis	Pertussis
Polyo	Polio
Tetano	Tetanus
Tigdas	Measles
Turkish	
Boğmaca	Pertussis
Çocuk Felci	Polio
DBT	DPT
Difteri	Diphtheria

Appendix B

Erken Yaz-Beyin İltihabı'na	Tick-borne encephalitis
Grip	Influenza
KKK	MMR
Kabakulak	Mumps
Kızamık	Measles
Kırmamıkçık	Rubella
Meningekoklar	Meningococcal
Kuduz	Rabies
Pnömonokoklar	Pneumococcal
Su Çiçeği	Varicella
Tetanos	Tetanus
Ukrainian	
Кіп	Measles
Поліо	Polio
Стовбняк	Tetanus
Vietnamese	
Bach Hâu	Diphtheria
Bại liệt	Polio
Ban Đò	Rubella
Dại	Rabies
Ho Gà	Pertussis
Quai Bị	Mumps
Sài Uon Ván	Tetanus
Sởi	Measles
Sốt Tê Liệt	Polio
Thuong hàn	Typhoid
Uon ván	Tetanus
Viêm gan siêu vi B (VGSV B)	Hepatitis B
VNNB	Japanese encephalitis

Foreign Language Terms

Table 2: Trade Names

Trade name	Antigen(s)	Manufacturer, Country
A.D.T.	Diphtheria, tetanus (adsorbed)	Commonwealth, Australia
A.K.D.S.	Diphtheria, tetanus, pertussis	UK
ACVax	Meningococcal (polysaccharide A & C)	GSK, UK
ACWYVax	Meningococcal (polysaccharide A, C, W, Y135)	GSK, UK
Acelluvax	Pertussis (acellular)	Chiron, Italy
ACTAcel	Diphtheria, tetanus, pertussis, Hib	Sanofi Pasteur, Argentina
Adifteper	Diphtheria, tetanus, pertussis	Ism, Italy
Adinvira A+B	Influenza (whole virus)	Imuna
Adiugrip	Influenza	Sanofi Pasteur
Admun	Influenza (whole virus)	Duncan
Admune GP	Influenza (whole virus)	Duncan
Agrippal	Influenza	Socopharm
Almmugen	Hepatitis A (inactivated)	Chemo-Sero-Therapeutic Resh Inst, Japan
Aldiana	Diphtheria (absorbed)	Sevac, Czech Republic
Alditeana	Diphtheria, tetanus (absorbed)	Sevac, Czech Republic
Alditerpera	Diphtheria, tetanus (adsorbed), pertussis	Sevac, Czech Republic
Almevax	Rubella	Evans
Alorbat	Influenza (whole virus)	Asta Pharma
Alteana Sevac	Tetanus	Institute of Sera and Vaccines
Amaril	Yellow fever	Sanofi Pasteur, France
AmBrix	Hepatitis A, Hepatitis B	GSK, Europe
AMC	Hib (polysaccharide)	Cuba
Anadifterall	Diphtheria (adsorbed)	Chiron, Italy
Anatetail	Tetanus (adsorbed)	Chiron, Italy
Anatoxal Di Te	Diphtheria, tetanus	Berna Biotech, Europe
Anatoxal Di Te Per	Diphtheria, tetanus, pertussis	Berna Biotech, Europe
Arlivax	Yellow fever	MEDI, UK
AVAC-1, AVA	Anthrax	(for U.S. military use)
AVAXIM	Hepatitis A	Aventis Pasteur, France
B-Hepavac II	Hepatitis B	Merck, Singapore
Begrivac	influenza (split virus)	Chiron, Germany
Betagen	Hepatitis B	Sanofi Pasteur

Appendix B

Trade name	Antigen(s)	Manufacturer, Country
Biaflu Zonale	Influenza (whole virus)	Farmabiagini, Itali
Biken-HB	Hepatitis B	Biken, Japan
Bilive	Hepatitis A/Hepatitis B (Recombinant)	Sinovac, China
Bimmugen	Hepatitis B (recombinant, adsorbed, yeast derived)	Chemo-Sero-Therapeutic Resh Inst, Japan
Biviraten Berna	Measles, mumps (live)	Berna Biotech, Switzerland
Buccopol Berna	Polio (oral)	Berna Biotech, Europe
BVAC	Botulinum antitoxin	(for U.S. military use)
B-Vaxin	Hepatitis B	Laboratorios Pablo Cassara, Argentina
C.D.T.	Diphtheria, tetanus (pediatric, adsorbed)	Commonwealth, Australia
CEF	Measles (Schwarz strain)	Chiron, Italy
Cacar	Smallpox	Indonesia
Campak Kerig	Measles	Pasteur Institute, Indonesia
Celluvax	Pertussis (acellular)	Chiron, Italy
Cinquerix	Diphtheria, tetanus, pertussis, Hib, Polio	GSK, Europe
Cocquelucheau	Pertussis (adsorbed)	Sanofi Pasteur, France
D-Immun	Diphtheria	Osterreichisches Institut, Austria
D.S.D.P.T.	Diphtheria, tetanus, pertussis (adsorbed)	Dong Shin Pharm, Korea
D.T. Bis Rudivax	Diphtheria, tetanus, rubella	Sanofi Pasteur, France
Di Anatoxal	Diphtheria	Berna Biotech, Europe
Di Te Per Pol Impfstoff	Diphtheria, tetanus, pertussis, polio	Berna Biotech, Switzerland
Di-Te-Pol SSI	Diphtheria, tetanus, polio	Statens Seruminstitut, Denmark
Dif-Tet-All	Diphtheria, tetanus	Chiron, Italy
Diftavax	Diphtheria, tetanus	Sanofi Pasteur
Ditanrix	Diphtheria, tetanus	GSK, Europe
DiTe Anatoxal	Diphtheria, tetanus (adsorbed)	Berna Biotech, Switzerland
Ditoxim	Diphtheria, tetanus (adsorbed)	Dong Shin Pharm, Korea
Double Anigen B.I.	Diphtheria, tetanus	Bengal Immunity Co, India
DT Adulte	Diphtheria, tetanus (adult)	Sanofi Pasteur, France
DT Bis	Diphtheria, tetanus (booster)	Sanofi Pasteur, France
DT Coq	Diphtheria, tetanus, pertussis	Sanofi Pasteur, France
DT Polio	Diphtheria, tetanus, polio	Sanofi Pasteur, France
DT TAB	Diphtheria, tetanus, <i>Salmonella typhi</i> , <i>Paratyphi A & B</i>	Sanofi Pasteur, France
DT Vax	Diphtheria, tetanus (pediatric)	Sanofi Pasteur, France
DT Wellcovax	Diphtheria, tetanus (pediatric)	Chiron, UK

Trade name	Antigen(s)	Manufacturer, Country
Dual Antigen SII	Diphtheria, tetanus (adsorbed)	Serum Institute of India (India)
Dultavax	Diphtheria, tetanus, polio	Aventis Pasteur, France
Dupla	Diphtheria, tetanus	Instituto Butantan, Brazil
Duplex	Diphtheria, tetanus	Sweden
Ecolarix	Measles, rubella (Schwarz & RA 27/3)	GSK, Europe
Elvarix	Influenza (split virus)	VEB Sachsenches Serumwerk Dresden
Encepur	Tick-borne encephalitis	Chiron, Europe
Enivac-HB	Hepatitis B (Recombinant DNA)	Centro de Ingenieria Genetica Y Biotecnologia, Cuba
Enterovaccino	Typhoid (IM)	Isi
Eolarix	Measles, rubella (Schwarz & RA 27/3)	GSK, Europe
Epaxal Berna	Hepatitis A - virosomal vaccine	Berna Biotech, Switzerland
Ervax	Rubella (live)	GSK, Mexico
Ervévac RA 27/3	Rubella (live)	GSK, Belgium
Esavalenti	Diphtheria, tetanus, pertussis, polio, Hib, hepatitis B	Italy
Euvax-B	Hepatitis B (recombinant DNA)	LG Chemical, South Korea
Fendrix	Hepatitis B (dialysis formulation)	GSK, Europe
Fluad Agrippal-S1	Influenza	Chiron, Italy
Flubron	Influenza (whole virus)	Pfizer
Flugen	Influenza	UK
Fluvax	Influenza	CSL, Australia
Fluvirine	Influenza	CellTech Pharma SA
FOH-M	Polio (Inactivated)	Russia
FrocuoOke	Polio (Inactivated)	Russia
FSME-IMMUNE	Tick-borne encephalitis	Baxter, Austria
FSPD	Measles	Russia
Funed-CEME	Diphtheria, tetanus, pertussis	Belo Horizonte, Brazil
Gen H-B-Vax	Hepatitis B	Merck-Behringwerke
GenHevac B Pasteur	Hepatitis B	Sanofi Pasteur
Gripax	Influenza (whole virus)	Hebrew University
Gripe	Influenza (whole virus)	Spain
Gripovax	Influenza (whole virus)	GSK
Gunevax	Rubella	Chiron, Italy
H-Adiftal	Diphtheria	Ism, Italy
H-Adiftetal	Diphtheria, tetanus (adult)	Ism, Italy

Appendix B

Trade name	Antigen(s)	Manufacturer, Country
H-Atetal	Tetanus	Ism, Italy
HarPaBreHnr B CtauOHAP	Rubella	Russia
HAVPur	Hepatitis A	Chiron, Germany
HB Vax Pro	Hepatitis B	SP
HBV	Hepatitis B (recombinant)	KGC, Japan
Heberbiovac HB	Hepatitis B	Heberbiotec, Cuba
Hepabest	Hepatitis A	Sanofi Pasteur, Mexico
Hepacare	Hepatitis B (recombinant)	Chiron, Europe
Hepaccine-B	Hepatitis B (plasma derived)	Chiel Jedang, South Korea
Hepagene	Hepatitis B	Chiron, Europe
Hepativax	Hepatitis B	LG Life Sciences, Korea
Hepavax-B	Hepatitis B (plasma derived)	Korea Green Cross, South Korea
Hepavax-Gene	Hepatitis B (recombinant DNA)	Korea Green Cross, South Korea
Hepcare	Hepatitis B	Chiron, Europe
Heprecomb	Hepatitis B (yeast derived)	Berna Biotech, Switzerland
Hevac B	Hepatitis B (plasma derived)	Sanofi Pasteur, France
Hexavac (Hexavax)	Diphtheria, tetanus, pertussis, polio, hepatitis B, Hib	Sanofi Pasteur, Europe
Hiberix	Hib conjugate	GSK
HIBest	<i>Haemophilus influenzae</i> type b	Sanofi Pasteur
Hinkuys karokoe	Pertussis (adsorbed)	Natl. Public Health Institute, Finland
HIS	Influenza	Serbian Institute, Yugoslavia
IBV	Polio (inactivated)	Statens Seruminstitut, Denmark
Immavax	Measles, mumps, rubella	Sanofi Pasteur, Europe
Immugrip	Influenza	Pierre Fabre Médicament
Immunil	Pneumococcal (polysaccharide)	Sidus
Imovax Parotiditis	Mumps	Sanofi Pasteur, Europe
Imovax Polio	Polio	Sanofi Pasteur, Europe
Imovax Sarampion	Measles	Sanofi Pasteur, Europe
Imovax D.T.	Diphtheria, tetanus (adult)	Sanofi Pasteur, Europe
Imovax Gripe	Influenza	Sanofi Pasteur, Europe
Imovax R.O.R.	Measles, rubella, mumps (live)	Sanofi Pasteur, Europe
Imovax Rubeola	Measles	Sanofi Pasteur, Europe
Imovax Mumps	Mumps	Sanofi Pasteur, Europe
Imovax Oreillons	Mumps	Sanofi Pasteur, Europe

Trade name	Antigen(s)	Manufacturer, Country
Imovax Rage	Rabies vaccine	Sanofi Pasteur, Europe
Imovax Tetano	Tetanus	Sanofi Pasteur, Europe
Infanrix Hexa	DTaP, polio, Hib, hepatitis B	GSK, France
Infanrix Penta	DTaP, hepatitis B, polio	GSK, Europe
Infanrix Quinta	DTaP, polio, Hib	GSK, Europe
Infanrix Tetra	DTaP, polio	GSK, Europe
Inflexal	Influenza	Swiss Serum and Vaccine Institute
Influmix	Influenza (whole virus)	Schiapparelli
Influpozzi Zonale	Influenza (whole virus)	Ivp
Influsplit SSW	Influenza (split virus)	VEB Sachse'sches Serumwerk Dresden
Influvac	Influenza	Solvay-Pharma
Influvirus	Influenza	Ism, Italy
Invirin	Influenza (whole virus)	GSK
Ipad TP	Tetanus, polio	Sanofi Pasteur, France
IPV-Virelon	Polio (inactivated)	Chiron, Europe
Isiflu Zonale	Influenza (whole virus)	Isi, Italy
Istivac	Influenza	Sanofi Pasteur, Europe
Kaksoisrokote Dubbelvaccin	Diphtheria, tetanus (pediatric)	Natl. Public Health Institute, Finland
Kikhoste-Vaksine	Pertussis	Statens Institutt for Folkehelse, Norway
Koplivac	Measles (Edmonston strain)	Philips-Duphar, Australia
Kotipa	Cholera, typhoid, paratyphoid	Perum Bio Farma, Indonesia
Krzluscowi	Pertussis	(Poland)
Ksztu	Pertussis	(Poland)
Lancy Vaxina	Smallpox	Swiss Serum and Vaccine Institute, Switzerland
Lavantuu tirokote	Typhoid	Central Pub Health La, Finland
Liomorbillo	Measles	
Liovaxs	Smallpox	Chiron, Italy
Lirugen	Measles	Sanofi Pasteur
LM - 3 RIT	Measles, mumps, rubella (live)	Dong Shin Pharm, Korea
LM - 2 RIT	Measles, mumps (live)	Dong Shin Pharm, Korea
Lteanas Imuna	Tetanus (adsorbed)	Imuna sp., Slovakia
Lyssavac N	Rabies	Berna Biotech, Europe
M-M-Rvax	Measles, mumps, rubella	Chiron, Europe
M-M-Vax	Measles, mumps	Merck, Europe

Appendix B

Trade name	Antigen(s)	Manufacturer, Country
Masern-Impfstoff SSW	Measles (live)	Chiron, Germany
Massling	Measles	Sweden
MDPH-PA	Anthrax	
Measavac	Measles (Edmonston strain)	Pfizer, UK
Mencevax A	Meningococcal (polysaccharide) (Group A)	SmithKline/RIT, Belgium
Mencevax ACWY	Meningococcal quadravalent	GSK
Mengivax A/C	Meningococcal (conjugate) (Groups A & C)	Sanofi Pasteur, Europe
Meningitec	Meningococcal (conjugate) (Group C)	Wyeth, UK, Australia
Meningtec	Meningococcal (conjugate) (Group C)	Wyeth, Canada
Meninvact	Meningococcus (conjugate) (Group C)	Sanofi Pasteur
Menjugate	Meningococcus (conjugate) (Group C)	Socopharm
Menpovax 4	Meningococcal (polysaccharide) (Groups A, C, Y & W135)	Chiron, Europe
Menpovax A+C	Meningococcal (Groups A & C)	Chiron, Italy
Mesavac	Measles (Edmonston strain)	Pfizer, UK
Mevillin-L	Measles (Schwarz strain)	Chiron, UK
MFV	Influenza (whole virus)	Servier, UK
MFV-Ject	Influenza (whole virus)	Sanofi Pasteur, Europe
Miniflu	Influenza	Schiapparelli, Italy
Mo-Ru Viraten	Measles, rubella	Berna Biotech, Canada
Moniarix	Pneumococcal (polysaccharide)	GSK, Europe
Monovax / Monovac	BCG	Sanofi Pasteur, France
Mopavac	Measles, mumps (live, attenuated)	Sevac, Czech Republic
Morbilvax	Measles (live, attenuated)	Chiron, Italy
Morubel	Measles, rubella (live, attenuated)	Chiron, Italy
Moruman Berna	Measles immunoglobulin	Berna, Switzerland
Morupar	Measles, mumps, rubella (live, attenuated)	Chiron, Italy
Movivac	Measles (live, attenuated)	Sevac, Czech Republic
Mumalen	Mumps (live)	Berna Biotech, Switzerland
Munevan	Influenza (whole virus)	Medeva
Mutagrip	Influenza	Sanofi Pasteur, Germany
Nasoflu	Influenza	GSK, Europe
Neis Vac-C	Meningococcal (conjugate) (Group C)	Baxter, Europe & Canada
Neotyf	Typhoid (oral)	Chiron, Italy
Nivgrip	Influenza (whole virus)	Nicolau Institute of Virology, Romania

Trade name	Antigen(s)	Manufacturer, Country
NorHOMHerHTA	Polio (Inactivated)	Russia
Nothav	Hepatitis A	Chiron, Italy
Okavax	Varicella	Sanofi Pasteur, Japan & Europe
Oral Virelon	OPV	Chiron, Germany
Pariorix	Mumps (live)	GSK, Mexico & Europe
Pavivac	Mumps (live)	Sevac, Czech Republic
Pediacel	DTaP, Hib, IPV	Europe
Penta	Diphtheria, tetanus, (acellular) pertussis, Hib, IPV	Sanofi Pasteur, Europe
PENT-HIBest	Diphtheria, tetanus, pertussis, polio, Hib	Sanofi Pasteur
Pentacel	Diphtheria, tetanus, pertussis, polio, Hib	Sanofi Pasteur, Canada
Pentacoq	Diphtheria, tetanus, pertussis, polio, Hib	Sanofi Pasteur
PentAct-HIB	Diphtheria, tetanus, pertussis, polio, Hib	Sanofi Pasteur, Europe
Pentavac	Diphtheria, tetanus, pertussis, polio, Hib	Sanofi Pasteur
Pentavalente	Diphtheria, tetanus, pertussis, hepatitis B, Hib	Mexico
Pentavalenti	Diphtheria, tetanus, pertussis, polio, Hib OR Diphtheria, tetanus, pertussis, polio, hepatitis B	Italy
Pentaxim	Diphtheria, tetanus, pertussis, polio, Hib	Aventis Pasteur, France
Pluserix	Measles, rubella	GSK, Mexico & Europe
Pneumopur	Pneumococcal (polysaccharide)	Chiron, Europe
POLIAcel	Diphtheria, tetanus, pertussis, polio, HIB	Sanofi Pasteur, Argentina
Poliomyelite	Polio (inactivated)	France
Polioral	Polio (oral)	Chiron, Germany
Polio Sabin	Polio (oral)	GSK, Europe
Poloral	Polio (oral)	Swiss Serum and Vaccine Institute
Prevenar	Pneumococcal (7-valent, conjugate)	Wyeth, France
Previgrip	Influenza	Chiron France
Primavax	Diphtheria, tetanus, hepatitis B	Sanofi Pasteur, Europe
Priorix	Measles, mumps, rubella (live)	GSK, Europe & Australia
Priorix-Tetra	Measles, mumps, rubella, varicella	GSK, Europe
Probivac-B	Hepatitis B	Probiomed, Mexico
Procomvax	Hib, hepatitis B	Merck, Sanofi Pasteur, Europe
Pulmovax	Pneumococcal (polysaccharide)	Merck
Quadracel	Diphtheria, tetanus, pertussis, polio	Sanofi Pasteur, Mexico
QUADRACel/Hibest	Diphtheria, tetanus, pertussis, polio, Hib	Sanofi Pasteur, Argentina

Appendix B

Trade name	Antigen(s)	Manufacturer, Country
Quadravax	DTP + polio	GSK
Quatro-Virelon	Diphtheria, tetanus, pertussis, polio	Chiron, Europe
Quinivax-IN	Diphtheria, tetanus, pertussis, Hib, polio	Valda Laboratori, Europe
Quintuple	Diphtheria, tetanus, pertussis, Hib, Polio	GSK, Mexico
R-HB Vaccine	Hepatitis B (recombinant)	Mitsubishi Chem Corp, Japan
R-Vac	Rubella (live)	Serum Institute, India
Rabdomune	Rabies	Impfstofwerke, Germany
Rabipur	Rabies	Chiron, Germany
Rabivac	Rabies	Chiron, Germany
Rasilvax	Rabies	Chiron, Italy
RDCV	Rabies	
Repevax	DTaP, IPV	Sanofi Pasteur
Revaxis	Td, IPV	Sanofi Pasteur, Europe
Rimevax	Measles (live)	GSK, Mexico & Europe
Rimparix	Measles, mumps (live)	GSK, Europe
RIT - LM-2	Measles, mumps (live)	Dong Shin Pharm, Korea
RIT - LM-3	Measles, mumps, rubella (live)	Dong Shin Pharm, Korea
Rorvax	Measles, mumps, rubella (live)	Sanofi Pasteur, Europe & Brazil
Rosovax	Rubella	Ism, Italy
Rotarix	Rotavirus (serotype G1, P1A[P8]) Attenuated, clinical trial	GSK
Rouvax	Measles (live, attenuated)	Sanofi Pasteur, Europe
Rubavax	Rubella (live)	Sanofi Pasteur, UK
Rubeaten	Rubella (live)	Berna Biotech, Europe
Rubellovac	Rubella	Chiron, Germany
Rubilin	Rubella (live)	Chiron, UK
Rudi-Rouvax	Measles, rubella (live)	Sanofi Pasteur, France
Rudivax	Rubella (live, attenuated)	Sanofi Pasteur, Europe
Sahia	Polio (live, oral)	Multiple manufacturers
Sampar	Plague	Sanofi Pasteur, Indonesia
Sandovac	Influenza	Sandoz, Austria
Serap	Diphtheria, tetanus, pertussis	Perum Bio Farma, Indonesia
Shanvac-B	Hepatitis B	Shantha, India
SMBV	Rabies	Sanofi Pasteur, Europe
Sii Triple Antigen	Diphtheria, tetanus, pertussis	Serum Institute, India

Trade name	Antigen(s)	Manufacturer, Country
Stamaril	Yellow fever (live, attenuated)	Sanofi Pasteur, Europe
Streptopur	Pneumococcal (polysaccharide)	Chiron, Europe
Subinvira	Influenza (split virus)	Imuna, Czech Republic
T. Polio	Tetanus toxoid, polio	SP (Canada)
T.A.B.	Typhoid, paratyphoid (A & B)	- Institute Pasteur, Tunisia - Egypt - Pharmaceutical Industries Corp, Burma
T-Immun	Tetanus (adsorbed)	Baxter, Germany
T-Vaccinol	Tetanus	Roehm Pharma, Germany
T-Weilcovax	Tetanus	Wellcopharm, Germany
Tanrix	Tetanus	GSK, Europe
Td-Pur	Tetanus, diphtheria	Chiron, Europe
Td-Virelon	Tetanus, diphtheria, polio	Chiron, Europe
Te Anatoxal	Tetanus	Berna Biotech, Switzerland
Telvacplap	Tetanus	Yugoslavia
Tet-Aktiv	Tetanus	Tropon-Cutter, Germany
Tet-Tox	Tetanus	CSL Limited, Australia
Tetagrip	Tetanus, influenza	SP (France)
Tetamin SSW	Tetanus (fluid, nonadsorbed)	Veb Sachsisches Serumwerk, Germany
Tetamyn	Tetanus	Biocon, Mexico
Tetanof	Tetanus (adsorbed)	Chiron, Sanofi Pasteur, Europe & Mexico
Tetanovac	Tetanus	Sanofi Pasteur, Mexico
Tetasorbat SSW	Tetanus (adsorbed)	Veb Sachsisches Serumwerk, Germany
Tetatox	Tetanus (adsorbed)	Berna Biotech, Italy
Tetavax	Tetanus (adsorbed)	Sanofi Pasteur, Europe
Tetracoq 05	Diphtheria, tetanus, pertussis, polio	Sanofi Pasteur, France
TetrAct-HIB	Diphtheria, tetanus, pertussis, Hib	Sanofi Pasteur, Europe
Tetravac Acellulaire	Diphtheria, tetanus, pertussis, polio	Sanofi Pasteur, Europe
Tetravalenti	Diphtheria, tetanus, pertussis, hepatitis B	Italy
Tetraxim	Tetanus, diphtheria, pertussis, polio	Sanofi Pasteur, Europe
Theracys	BCG	Aventis Pasteur, Canada
Ticovac	Tick-borne encephalitis	Baxter SA
Tifovax	Typhoid (Vi polysaccharide)	Sanofi Pasteur, Mexico
Titifica	Typhoid and para typhoid	Italy
TOPV	Trivalent oral polio vaccine	Multiple manufacturers and countries
Trenin DPT Behring	Diphtheria, tetanus, pertussis	Chiron Behring GmbH, Germany

Appendix B

Trade name	Antigen(s)	Manufacturer, Country
Tresivac	Measles, mumps, rubella	Serum Institute, India
Triacel	Diphtheria, tetanus, (acellular) pertussis	Sanofi Pasteur, Europe & Mexico
Triacelluvax	Diphtheria, tetanus, (acellular) pertussis	Chiron, Europe
Trimovax	Measles, mumps, rubella (live)	Sanofi Pasteur, Europe
Tripacel	Diphtheria, tetanus, (acellular) pertussis	Sanofi Pasteur, Europe
Triple antigen	Diphtheria, tetanus, pertussis	- Chowgule & Co., India - CSL Limited, Australia
Triple Sabin	Polio (live, oral)	Mexico
Triple	Diphtheria, tetanus, pertussis	Cuba, Mexico
Triple Viral	Measles, mumps, rubella	Mexico Immunology Institute, Croatia
Triplíce (VT)	Diphtheria, tetanus, pertussis	Instituto Butantan, Brazil
Triplíce Viral (VTV)	Measles, mumps, rubella	Instituto Butantan, Brazil
Triplovax	Measles, mumps, rubella	Sanofi Pasteur, Europe & Brazil
Tritanrix	DTwP	GSK
Tritanrix-HB	DTwP/hepatitis B	GSK, Mexico
Tritanrix-HB-Hib	DTwP/hepatitis B/Hib	GSK
Trivacuna Leti	Diphtheria, tetanus (adsorbed), pertussis	Laboratory Leti, Spain
Trivax	Diphtheria, tetanus (plain), pertussis	Chiron, UK
Trivax-AD	Diphtheria, tetanus (adsorbed), pertussis	Chiron, UK
Trivax-Hib	Diphtheria, tetanus, pertussis, Hib	GSK, Europe
Trivb	Diphtheria, tetanus, pertussis	Brazil
Triviraten	Measles, mumps, rubella (live, attenuated)	Berna Biotech, Switzerland
Trivivac	Measles, mumps, rubella (live, attenuated)	Sevac, Czech Republic
Trivivax	Measles, mumps, rubella	Sanofi Pasteur, Mexico
Tussitrupin Forte	Pertussis	Staatliches Institut, Germany
Tuvax	BCG	Japan BCG Laboratory, Japan
Tyne	BCG	Sweden
Typherix	Typhoid (Vi polysaccharide)	GSK, Europe & Australia
Typhopara-typhoidique	Typhoid and para typhoid	France
Typhoral-L	Typhoid (Ty21a oral)	Berna Biotech, Germany
Typh-Vax	Typhoid	CSL Limited, Australia
Va-Diftel	Diphtheria, tetanus	Finlay Vacunas y Sueros, Cuba
Va-Mengoc-BC	Meningococcal (Groups B & C)	Finlay Vacunas y Sueros, Cuba
Vac-DPT	Diphtheria, tetanus, pertussis	Bioclon, Mexico
Vaccin Differic Adsorbit	Diphtheria toxoid (adsorbed)	Cantacuzino Institute, Romania

Trade name	Antigen(s)	Manufacturer, Country
Vaccin Rabique Pasteur	Rabies	Pasteur Vaccins
Vaccin Combinat Diftero-Tetanic	Diphtheria, tetanus (adsorbed)	Cantacuzino Institute, Romania
Vaccin tuberculeux attenué lyophilisé	BCG	Sanofi Pasteur, France
Vaccinum Morbillorum Vivum	Measles (live)	Moscow Research Institute, Russia
Vacina Dupla	Diphtheria, tetanus	Instituto Butantan, Brazil
Vacina Triplice	Diphtheria, tetanus, pertussis	Instituto Butantan, Brazil
Vacina Triplice Viral	Measles, mumps, rubella	Brazil
Vacunol	Tetanus	Temis-Lostato, Brazil
Vaksin Sampar	Plague	Perum Bio Farma, Indonesia
Vaksin Cacar	Smallpox	Indonesia
Vaksin Serap	Diphtheria, tetanus, pertussis	Perum Bio Farma, Indonesia
Vaksin Campak Kerig	Measles (live, attenuated)	Perum Bio Farma, Indonesia
Vaksin Kotipa	Cholera, typhoid and paratyphoid A, B & C	Perum Bio Farma (Indonesia)
Vamoavax	Measles, mumps (live)	Institute of Immunology, Croatia
Varicella-RIT	Varicella	GSK, Europe
Varicellon	Varicella zoster immunoglobulin	Behringwerke Aktiengesellschaft, Germany
Varie	Smallpox (lyophilized)	Institute of Sera and Vaccine, Czech Republic
Varitrix	Varicella (live, Oka strain)	GSK, Europe & Mexico
Tax-Tet	Tetanus	Finlay Vacunas & Sueros, Cuba
Vaxem-Hib	Hib (polysaccharide)	Chiron, Europe
Vaxicoq	Pertussis (adsorbed)	Sanofi Pasteur, France
Vaxigrip	Influenza	Sanofi Pasteur, Europe & Australia
Vaxihaler-Flu	Influenza (inhaler)	Riker, UK
Vaxipar	Mumps (live)	Chiron, Italy
VCDT	Diphtheria, tetanus (pediatric)	Cantacuzino Institute, Romania
VDA Vaccin Difteric Adsorbit	Diphtheria	Cantacuzino Institut, Romania
Verorab	Rabies (purified vero cell)	Sanofi Pasteur, France
Vibriomune	Cholera	Duncan Flockhart, UK
Viralinte	Hepatitis B	Ivax Pharmaceuticals, Mexico
Virelon C	Polio (Inactivated)	Chiron, Germany
Virelon T 20	Polio (live, oral, trivalent)	Chiron, Germany
Virivac	Measles, mumps, rubella (live)	Merck, Finland

Appendix B

Trade name	Antigen(s)	Manufacturer, Country
Virovac Massling, Perotid, Rubella	Measles, mumps, rubella	Sweden
Vopix	OPV	PT Biofarma, Indonesia
VT (Vacina Triplice)	Diphtheria, tetanus, pertussis	Instituto Butantan, Brazil
VTV (Vacina Triplice Viral)	Measles, mumps, rubella	Brazil
VVR	Measles (live, attenuated)	Cantucuzino Institute, Romania
Welltrivax trivalente	Diphtheria, tetanus, pertussis	Spain
Zaantide	Diphtheria anti-toxin	Imunoloski Zavod, Croatia
Zaantite	Tetanus anti-toxin	Imunoloski Zavod, Croatia
Zaditeadvax	Diphtheria, tetanus	Imunoloski Zavod, Croatia
Zaditevax	Diphtheria, tetanus	Imunoloski Zavod, Croatia
Zamevax A+C	Meningococcal (polysaccharide, Groups A & C)	Imunoloski Zavod, Croatia
Zamovax	Measles (live)	Imunoloski Zavod, Croatia
Zamruvax	Measles, rubella (live)	Imunoloski Zavod, Croatia
Zapavax	Mumps	Imunoloski Zavod, Croatia
Zaruvax	Rubella (live)	Imunoloski Zavod, Croatia
Zatetravax	Diphtheria, tetanus, pertussis, parapertussis	Imunoloski Zavod, Croatia
Zatevax	Tetanus	Imunoloski Zavod, Croatia
Zatribavax	Diphtheria, tetanus, pertussis	Imunoloski Zavod, Croatia
Zatriyax	Measles, rubella, mumps (live)	Imunoloski Zavod, Croatia