

Excipients per 0.5 mL

Albumin, Human	MMR II (Merck)	MMR	0.3 mg
	Attenuvax (Merck)	Measles	0.3 mg
	Mumpsvox (Merck)	Mumps	0.3 mg
	Meruvax II (Merck)	Rubella	0.3 mg
	ProQuad (Merck)	MMR+Varicella	0.31 mg
	RabAvert (Novartis)	Rabies	<0.3 mg
Albumin, Egg	Afluvia (CSL)	Influenza	≤1 mcg
	Agriful (Novartis)	Influenza	residual, <0.4 mcg
	Fluarix (GSK)	Influenza	≤0.1 mcg
	FluLaval (GSK)	Influenza	≤1 mcg
	Fluvirin (Novartis)	Influenza	residual
	Fluzone (sp)	Influenza	residual
	H1N1 (GSK)	H1N1 Influenza	≤1 mcg
	H1N1 (CSL)	H1N1 Influenza	≤1 mcg
	H1N1 (Novartis)	H1N1 Influenza	≤1 mcg
Albumin, Bovine	Havrix (GSK)	Hep A	<1 mg/mL (<0.5 mg)
	Pentacel	DTaP-IPV-Hib	3.3 mg
	Vaqta (Merck)	Hep A	
Amino Acids	Cervarix (GSK)	HPV	in media
	Comvax (Merck)	Hib-HepB	in media
	Gardasil (Merck)	HPV	in media
	Havrix (GSK)	Hep A	in media, 0.3%w/v
	HibTITER (Wyeth)	Hib	in media
	Menveo (Novartis)	Meningococcal	"...CY medium containing ... amino acids."
	Twinrix (SKB)	Hep AB	
	Vivotif Berna (Berna)	Typhoid	1.4-7 mg
Ammonium Sulfate	ActHIB (sp)	Hib	
	HibTITER (Wyeth)	Hib	
	OmniHIB (sp)	Hib	
Arginine	Fluzone (sp)	Influenza	2.42 mg
	FluMist (Medimmune)	Influenza	2.42 mg/dose
	H1N1 Intranasal (Medimmune)	H1N1Influenza	2.42 mg/dose
Ascorbic acid	Vivotif Berna (Berna)	Typhoid	1-5 mg
Calcium Chloride	Afluvia (CSL)	Influenza	1.5 mcg
	H1N1 (CSL)	H1N1 Influenza	1.5 mcg
DNA	ProQuad (Merck)	MMR+Varicella	residual
	Vaqta (Merck)	Hep A	<4x10 ⁻⁶ mcg
	Varivax (Merck)	Varicella	residual
	Zostavax (Merck)	Varicella Zoster	residual
Formaldehyde	Adacel (ap)	Tdap	≤5 mcg (0.005 mg)
	Agriful (Nov)	Influenza	≤10 mcg
	BioThrax (Bioport)	Anthrax	100 mcg/mL (0.1 mg)
	Boostrix (GSK)	Tdap	≤100 mcg (0.1 mg)

	Comvax	Hib-HepB	≤0.0004%
	DAPTACEL (sp)	Td	≤5 mcg (0.1 mg)
	DECAVAC (sp)	DTaP	≤100 mcg
	DT (sp)	DT	≤0.02%
	Fluarix (GSK)	Influenza	≤50 mcg
	FluLaval (GSK)	Influenza	≤25 mcg
	Fluzone (sp)	Influenza	≤100 mcg (0.1 mg)
	H1N1 (sp)	H1N1 Influenza	≤100 mcg (0.1 mg)
	H1N1 (GSK)	H1N1 Influenza	≤25 mcg (0.025 mg)
	Infanrix (GSK)	DTaP	≤100 mcg (0.1 mg)
	IPOL (sp)	IPV	≤0.02%
	JE-Vax (sp)	Japanese Encephalitis	<100 mcg (0.1 mg)
	Kinrix (GSK)	DTaP-IPV	<100 mcg (0.1 mg)
	Menveo (Novartis)	Mening	Residual
	Pediarix (GSK)	DTaP-HepB-IPV	≤100 mcg (0.1 mg)
	Pentacel (sp)	DTaP-IPV-Hib	<5 mcg residual
	Tetanus Toxoid Adsorbed (sp)	TT	≤0.02%
	TriHIBit (sp)	DTaP-Hib	≤100 mcg (0.1 mg)
	Tripedia (sp)	DTaP	≤100 mcg (0.1 mg)
	Vaqta (Merck)	Hep A	<0.8 mcg (0.008 mg)
Formaline	Havrix (GSK)	HepA	≤0.1% mg/mL
	Twinrix (GSK)	Hep AB	≤0.1 mg/mL
Gelatin (Bovine)	RabAvert (Novartis)	Rabies	<12 mg (Polygeline)
Gelatin (Porcine)	Attenuvax (Merck)	Measles	Hydrolyzed Gelatin, 14.5 mg
	Flumist (MedImmune)	Influenza	Hydrolyzed Gelatin, 2.00 mg
	Fluzone (sp)	Influenza	0.05% (added as a stabilizer)
	H1N1 (sanofi pasteur)	H1N1 Influenza	0.05% (added as a stabilizer)
	H1N1-nasal (MedImmune)	H1N1 Influenza	Hydrolyzed Gelatin, 2.00 mg
	JE-Vax	Japanese Encephalitis	<500 mcg
	Meruvax II (Merck)	Rubella	Hydrolyzed Gelatin, 14.5 mg
	MMR II (Merck)	Measles, Mumps, Rubella	Hydrolyzed Gelatin, 11 mg
	Mumpsvax (Merck)	Mumps	Hydrolyzed Gelatin, 14.5 mg
	ProQuad (Merck)	MMR+varicella	Hydrolyzed Gelatin, 14.5 mg
	Tripedia (sp)	DTaP	residual used in the production of the pertussis concentrate
	Varivax (Merck)	Varicella	Hydrolyzed Gelatin, 12.5 mg/dose
	YF-Vax (sp)	Yellow Fever	as stabilizer
	Zostavax (Merck)	Varicella Zoster	Hydrolyzed gelatin, 15.58 mg
Gentamicin sulfate	Flumist (Medimmune)	Influenza	<0.015 mcg/mL
	Fluarix (GSK)	Influenza	≤0.15 mcg
	H1N1-nasal (MedImmune)	H1N1 Influenza	≤0.015 mcg/mL
Glutaraldehyde	ADACEL (ap)	Tdap	<50 ng residual
	Boostrix (GSK)	Tdap	trace
	DAPTACEL (sp)	DTaP	<50 ng residual
	Infanrix (GSK)	DTaP	trace

	Kinrix (GSK)	DTaP-IPV	trace	
	Pentacel (sp)	DTaP-IPV-Hib	<50 ng residual	
	Pediarix (GSK)	DTaP-HepB-IPV	trace	
Glycerin	Dryvax (Wyeth)	Smallpox	50% of diluent	
Polyethylene glycol p- isooctylphenyl ether	Fluzone (sp)	Influenza	≤0.02%	
	H1N1 (CSL)	H1N1 Influenza	≤0.02%	
Lactose	MENOMUNE-A/C/Y/W-135 (sp)	Mening	2.5-5.0 mg	
	Vivotif Berna (Berna)	Typhoid	100-180 mg	
Magnesium stearate	Vivotif Berna (Berna)	Typhoid	3.6-4.4 mg	
Monosodium glutamate	Flumist (Medimmune)	Influenza	0.188 mg/dose	
	H1N1-nasal (MedImmune)	H1N1 Influenza	0.188 mg/dose	
	ProQuad (Merck)	MMR+Varicella	0.4 mg	
	Varivax (Merck)	Varicella	0.5 mg	
	Zostavax (Merck)	Varicella Zoster	0.62 mg	
Neomycin	Afluria (CSL)	Influenza	≤0.2 pg (Neomycin sulfate)	
	Agriflu (Novartis)	Influenza	≤0.02 mcg	
	Attenuvax (Merck)	Measles	25 mcg	
	Dryvax (W)	Smallpox	100 mcg/mL (50 units/0.5 mL)	
	Fluvirin (Novartis)	Influenza	≤2.5 mcg	
	H1N1 (CSL)	H1N1 Influenza	≤0.2 pg (Neomycin sulfate)	
	H1N1 (Novartis)	H1N1 Influenza	≤2.5 mcg	
	Havrix (GSK)	Hep A	≤40 ng/mL (Neomycin sulfate)	
	Imovax Rabies (sp)	Rabies	<150 mcg (Neomycin Sulfate)	
	IPOL (sp)	Polio	<5 ng	
	Kinrix (GSK)	DTaP/IPV	≤0.05 ng	
	Meruvax II (Merck)	Rubella	25 mcg	
	MMR II (Merck)	MMR	25 mcg	
	Mumpsvax (Merck)	Mumps	25 mcg	
	Pediarix (GSK)	DTaP-HepB-IPV	≤0.05 ng	
	Pentacel (sp)	DTaP-IPV-Hib	<4 pg	
	ProQuad (Merck)	MMR+Varicella	<16 mcg	
	RabAvert (Chiron)	Rabies	< 1 mcg	
	Twinrix (GSK)	Hep AB	≤20 ng	
	Varivax (Merck)	Varicella	trace amounts	
	Zostavax (Merck)	Varicella Zoster	trace amounts	
	Phenol Red indicator	Imovax Rabies (sp)	Rabies	<20 mg
		Rotarix (GSK)	Rotavirus	
Phosphate-buffered Isotonic Solution	Afluria (CSL)	Influenza		
	Fluvirin (Novartis)	Influenza	≤1 mcg	
	FluLaval (GSK)	Influenza		
Polymyxin B	Afluria (CSL)	Influenza	≤0.03pg	
	Dryvax (W)	Smallpox	100 units/mL (50 units/0.5 mL)	
	Fluvirin (Novartis)	Influenza	undetectable amounts	
	H1N1 (Novartis)	H1N1 Influenza	≤3.75 mcg	

	IPOL (sp)	Polio	25 ng
	Kinrix (GSK)	DTaP/IPV	≤0.01 ng
	Pediarix (GSK)	DTaP-HepB-IPV	≤0.01 ng
	Pentacel (sp)	DTaP-IPV-Hib	<4 pg (polymyxin B sulfate)
2-phenoxyethanol	ADACEL (ap)	Tdap	3.3 mg (not used as a preservative)
Polydimethylsiloxane-based antifoam agents	Typhim Vi (sp)	Typhoid	residual
Polygeline	RabAvert (Novartis)	Rabies	12 mg
Polysorbate 20	Havrix (SKB)	HepA	0.05 mg/mL
	Twinrix (SKB)	Hep AB	
Polysorbate 80	Agriflu	Influenza	≤50 mcg
	Boostrix (GSK)	Tdap	≤100 mcg
	Fluarix (GSK)	Influenza	≤0.380 mg
	Gardasil (Merck)	HPV	50 mcg
	Infanrix (GSK)	DTaP	≤100 mcg (0.1 mg)
	JE-Vax (sp)	Japanese Encephalitis	0.007%
	Kinrix (GSK)	DTaIPV	≤100 mcg
	Pediarix (GSK)	DTaP-HepB-IPV	≤100 mcg
	Pentacel	DTaP-IPV-Hib	10 ppm
	RotaTeq (Merck)	Rotavirus	
	TriHIBit (sp)	DTaP-Hib	
	Tripedia (sp)	DTaP	
	Potassium chloride	Afluria (CSL)	Influenza
H1N1 (CSL)		H1N1 Influenza	20 mcg
ProQuad (Merck)		MMR+Varicella	60 mcg
Varivax (Merck)		Varicella	0.08 mg
Zostavax (Merck)		Varicella Zoster	0.10 mg
Potassium glutamate	RabAvert (Novartis)	Rabies	1 mg
Potassium phosphate	Afluria (CSL)	Influenza	20 mcg (monobasic)
	FluMist (Medimmune)	Influenza	2.26 mg/dose (dibasic) 0.96 mg/dose (monbasic)
	H1N1 (CSL)	H1N1 Influenza	20 mcg, monobasic
	H1N1 Intranasal (Medimmune)	H1N1Influenza	2.26 mg/dose (dibasic) 0.96 mg/dose (monbasic)
	ProQuad (Merck)	MMR+Varicella	72 mcg (monobasic) 36 mcg (dibasic)
	Varivax (Merck)	Varicella	0.08 mg (monobasic)
	Zostavax (Merck)	Varicella Zoster	0.10 mg (monobasic)
Protein	Cervarix (GSK)	HPV	may contain <40 ng viral protein and <150 ng bacterial cell protein
	Havrix (GSK)	Hep A	≤5 mcg (MCR-5 Cellular)
	HibTITER (Wyeth)	Hib	25 mcg CRM ₁₉₇ protein
	Menveo (Novartis)	Mening	32.7-64.1 mcg CRM ₁₉₇ protein
	ProQuad (Merck)	MMR+Varicella	residual
	Twinrix (GSK)	Hep AB	≤2.5 mcg/mL
	Vaqta (Merck)	Hep A	<0.1 mcg (Nonviral)
Zostavax (Merck)	Varicella Zoster	residual amounts	

Serum, Fetal Bovine	Attenuvax (Merck)	Measles	<1 ppm
	IPOL (sp)	Polio	<1 ppm
	Meruvax II (Merck)	Rubella	<1 ppm
	MMR II (Merck)	MMR	<1 ppm
	Mumpsvox (Merck)	Mumps	<1 ppm
	ProQuad (Merck)	MMR+varicella	0.5 mcg
	RotaTeq (Merck)	Rotavirus	trace amounts
	Varivax (Merck)	Varicella	trace amounts
Zostavax (Merck)	Varicella Zoster	trace amounts	
Sodium Borate (Decahydrate)	Comvax (Merck)	Hib-HepB	35 mcg (0.035 mg)
	Gardasil (Merck)	HPV	35 mcg
	Vaqta (Merck)	Hep A	35 mcg pediatric; 70 mcg in adult formulation
Sodium Chloride	Afluria (CSL)	Influenza	4.1 mg
	Attenuvax (Merck)	Measles	
	Cervarix (GSK)	HPV	4.4 mg
	Comvax (Merck)	Hib-HepB	0.9%
	Engerix-B (GSK)	Hep B	9 mg/mL
	Fluarix (GSK)	Influenza	
	Fluzone (sp)	Influenza	
	Gardasil (Merck)	HPV	9.56 mg
	H1N1 (CSL)	H1N1 Influenza	4.1 mg
	HibTITER (Wyeth)	Hib	dissolved in 0.9% sodium chloride
	Infanrix (GSK)	DTaP	4.5 mg/mL (2.25 mg)
	Meruvax II (Merck)	Rubella	
	MMR II (Merck)	MMR	
	Mumpsvox (Merck)	Mumps	
	Pediarix (GSK)	DTaP-HepB-IPV	4.5 mg
	ProQuad (Merck)	MMR+Varicella	2.4 mg
	Twinrix (GSK)	Hep AB	
	Typhim Vi (sp)	Typhoid	4.150 mg
	Varivax (Merck)	Varicella	3.2 mgt
	YF-Vax (sp)	Yellow Fever	0.6 mL in diluent
Zostavax (Merck)	Varicella Zoster	3.99 mg	
Sodium Deoxycholate	Fluarix (GSK)	Influenza	≤ 50 mcg
	FluLaval (GSK)	Influenza	≤ 50 mcg
	H1N1 (CSL)	H1N1 Influenza	≤10 ppm Sodium Taurodeoxycholate
	H1N1 (GSK)	H1N1 Influenza	≤50 mcg
Sodium Dihydrogen phosphate	Engerix-B (GSK)	Hep B	0.71 mg/mL
	Cervarix (GSK)	HPV	0.624 mg
Sodium EDTA	RabAvert (Novartis)	Rabies	0.3 mg
Sodium Hydroxide	RotaTeq (Merck)	Rotavirus	
Sodium Phosphate	Afluria (CSL)	Influenza	300 mcg, Dibasic 80 mcg, Monobasic

	Attenuvax (Merck)	Measles	
	H1N1 (CSL)	H1N1 Influenza	300 mcg, Dibasic 80 mcg, Monobasic
	Engerix-B (GSK)	Hep B	0.98 mg/mL Disodium phosphate
	Meruvax II (Merck)	Rubella	
	MMR II (Merck)	MMR	
	Mumpsvax (Merck)	Mumps	
	ProQuad (Merck)	MMR+Varicella	0.34 mg, dibasic
	Rotarix (Merck)	Rotavirus	
	Varivax (Merck)	Varicella	0.45 mg
	ProQuad (Merck)	MMR+Varicella	0.34 mg
	RotaTeq (Merck)	Rotavirus	Monobasic Monohydrate
	Typhim Vi	Typhois	0.065 mg Disodium Phosphate 0.023 mg Monosodium Phosphate
	Varivax	Varicella	0.45 mg Sodium Phosphate Dibasic trace amounts Sodium Phosphate Monobasic
	Zostavax (Merck)	Varicella Zoster	0.57 mg Sodium Phosphate Dibasic
	Sucrose	ActHIB (sp)	Hib
Attenuvax (Merck)		Measles	1.9 mg
Fluarix (GSK)		Influenza	
FluMist (Medimmune)		Influenza	13.68 mg/dose
Fluzone (sp)		Influenza	≤12%
H1N1 (CSL)		H1N1 Influenza	≤ 2%
H1N1 (sp)		H1N1 Influenza	≤ 2%
H1N1-nasal (MedImmune)		H1N1 Influenza	13.68 mg/dose
Meruvax II (Merck)		Rubella	1.9 mg
MMR II (Merck)		MMR	1.9 mg
Mumpsvax (Merck)		Mumps	1.9 mg
ProQuad (Merck)		MMR+Varicella	≤ 21 mg
RotaTeq (Merck)		Rotavirus	
Tripedia (sp)		DTaP	8.5%
Varivax (Merck)		Varicella	25 mg
Vivotif Bernal (Berna)		Typhoid	26-130 mg
Zostavax (Merck)		Varicella Zoster	31.16 mg
Sorbitol		Attenuvax (Merck)	Measles
	Meruvax II (Merck)	Rubella	14.5 mg
	MMR II (Merck)	MMR	14.5 mg
	Mumpsvax (Merck)	Mumps	14.5 mg
	ProQuad (Merck)	MMR+Varicella	1.8 mg
	Rotarix (Merck)	Rotavirus	
	YF Vax (sp)	Yellow Fever	as stabilizer
Thimerosal	Fluarix (GSK)	Influenza	trace amount ≤ 1 mcg mercury
	FluLaval (GSK)	Influenza	25 mcg mercury
	Fluvirin (Novartis)	Influenza	24.5 mcg

Yeast	Fluzone (sp)	Influenza	none in No Preservative presentations; 25 mcg mercury in 0.5 mL prefilled and multi-dose syringe
	JE-Vax (sp)	Japanese Encephalitis	0.007%
	Pediarix (GSK)	DTaP-HepB-IPV	<12.5 ng mercury
	Comvax (Merck)	Hib-HepB	"The vaccine contains no detectable yeast DNA, and 1% or less of the protein is of yeast origin."
	Engerix-B (GSK)	Hep B	<5% yeast protein
	Gardasil (Merck)	HPV	<7 mcg yeast protein/dose
	HibTITER (Wyeth)	Hib	"...yeast extract-based medium that is ultrafiltered before use."
	Menveo (Novartis)	Meningococcal	"...CY medium containing yeast extracts..."
	Pediarix (GSK)	Hep B	≤5% yeast protein
	Prevnar (WL)	Pneumococcal	"...and yeast extract-based medium"
Recombivax HB (Merck)	Hep B	<1%	
Twinrix (GSK)	Hep AB	≤5% yeast protein	
Vivotif Berna (Berna)	Typhoid	yeast extract from media	

updated February 2010