

# Vaccine Excipients per 0.5 mL

Excipient	Type	Vaccine Name	Vaccine Type	Amount
2-Phenoxyethanol	Stabilizer	Adacel	Tdap	Not as a preservative
2-Phenoxyethanol	Stabilizer	Daptacel	DTaP	3.3 mg (0.6% v/v) (not as a preservative)
2-Phenoxyethanol	Preservative	IPOL	Polio	0.5% (as a preservative)
2-Phenoxyethanol	Stabilizer	Pentacel	DTaP+IPV+Hib	3.3 mg (0.65 v/v) (not as a preservative)
3-O-desacyl-4'-monophosphoryl lipid A (MPL)	Adjuvant	Cervarix	HPV	50 mcg
Albumin, Bovine	Stabilizer	Ixiaro	Japanese Encephalitis	≤ 100 ng/mL
Albumin, Bovine	Stabilizer	Vaqta	HepA	.1 ng
Albumin, Calf Serum	Stabilizer	Kinrix	DTaP+IPV	VERO cell culture growth
Albumin, Calf Serum	Stabilizer	Zostavax	Zoster	Trace amounts
Albumin, Calf Serum Protein	Stabilizer	IPOL	IPV	< 1 ppm
Albumin, Calf Serum Protein	Stabilizer	Pediarix	DTaP+HepB+IPV	≤ 50 ng residual
Albumin, Calf Serum Protein	Stabilizer	Pentacel	DTaP+IPV+Hib	Supplements CMRL 1969 medium
Albumin, Egg (Ovalbumin)	Residual Medium	Afluria	Influenza	≤ 1 mcg
Albumin, Egg (Ovalbumin)	Residual Medium	Fluarix	Influenza	≤ 0.05 mcg
Albumin, Egg (Ovalbumin)	Residual Medium	Flulaval	Influenza	≤ 0.3 mcg
Albumin, Egg (Ovalbumin)	Residual Medium	FluMist	Influenza	≤ 0.24 mcg
Albumin, Egg (Ovalbumin)	Residual Medium	Fluvirin	Influenza	≤ 1 mcg
Albumin, Egg (Ovalbumin)	Residual Medium	FluZone	Influenza	Limited quantity
Albumin, Egg (Ovalbumin)	Residual Medium	RabAvert	Rabies	< 3 ng/dose
Albumin, Fetal Bovine Serum	Stabilizer	MMR-II	MMR	< 1 ppm
Albumin, Fetal Bovine Serum	Stabilizer	RotaTeq	Rotavirus	Trace amounts
Albumin, Fetal Bovine Serum	Stabilizer	Varivax	Varicella	Trace amounts
Albumin, Human Serum	Diluent/Stabilizer	ACAM2000	Smallpox	2%
Albumin, Human	Stabilizer	Imovax	Rabies	< 100 mg
Albumin, Human Serum	Diluent/Stabilizer	MMR-II	MMR	≤ 0.3 mg
Albumin, Human Serum	Diluent/Stabilizer	ProQuad	MMRV	0.31 mg
Albumin, Human Serum	Diluent/Stabilizer	RabAvert	Rabies	< 0.3 mg
Aluminum	Adjuvant	Adacel	Tdap	0.33 mg
Aluminum	Adjuvant	BioThrax	Anthrax	1.2 mg/mL
Aluminum	Adjuvant	Boostrix	Tdap	≤ 0.39 mg
Aluminum	Adjuvant	Cervarix	HPV	0.5 mg aluminum hydroxide
Aluminum	Adjuvant	Comvax	Hib+HepB	225 mcg
Aluminum	Adjuvant	Daptacel	DTaP	0.33 mg
Aluminum	Adjuvant	DT	DT	≤ 0.17 mg
Aluminum	Adjuvant	Engerix-B	HepB	0.5 mg/mL as aluminum hydroxide
Aluminum	Adjuvant	Gardasil	HPV	225 mcg
Aluminum	Adjuvant	Havrix	HepA	0.5 mg/mL as aluminum hydroxide
Aluminum	Adjuvant	Infanrix	DTaP	≤ 0.625 mg
Aluminum	Adjuvant	Ixiaro	Japanese Encephalitis	250 mcg aluminum hydroxide
Aluminum	Adjuvant	Kinrix	DTaP+IPV	≤ 0.6 mg
Aluminum	Adjuvant	Pediarix	DTaP+HepB+IPV	≤ 0.85 mg
Aluminum	Adjuvant	PedvaxHIB	Hib+HepB	225 mcg
Aluminum	Adjuvant	Pentacel	DTaP+IPV+Hib	0.33 mg
Aluminum	Adjuvant	Prevnar	Pneumococcal 7-valent	0.125 mg
Aluminum	Adjuvant	Prevnar 13	Pneumococcal 13-valent	0.125 mg
Aluminum	Adjuvant	Recombivax HB	HepB	0.5 mg/mL
Aluminum	Adjuvant	Td	Td	≤ 0.53 mg
Aluminum	Adjuvant	Twinrix	HepA+HepB	0.45 mg
Aluminum	Adjuvant	Vaqta	HepA	0.45 mg/mL (0.225 mg in ped dose)
Amino Acid	Medium Nutrient	BioThrax	Anthrax	Unspecified amount in growth medium
Amino Acid	Medium Nutrient	Cervarix	HPV	Unspecified amount in growth medium
Amino Acid	Medium Nutrient	Comvax	Hib+HepB	Unspecified amount in growth medium
Amino Acid	Medium Nutrient	Flublok	Influenza	In growth medium
Amino Acid	Medium Nutrient	FluMist	Influenza	2.42 mg/dose Arginine
Amino Acid	Medium Nutrient	Gardasil	HPV	In growth medium
Amino Acid	Medium Nutrient	Havrix	HepA	0.3% w/v
Amino Acid	Medium Nutrient	Menveo	Meningococcal	In growth medium
Amino Acid	Medium Nutrient	MMR-II	MMR	In growth medium
Amino Acid	Medium Nutrient	PedvaxHIB	Hib+HepB	Amount not specified in Package Insert
Amino Acid	Medium Nutrient	Recombivax HB	HepB	In fermentation medium
Amino Acid	Medium Nutrient	Rotarix	Rotavirus	In DMEM (Dulbecco's Modified Eagle Medium)
Amino Acid	Medium Nutrient	Twinrix	HepA+HepB	Amount not specified in Package Insert
Amino Acid	Medium Nutrient	Vivotif	Typhoid	1.4-7 mg/capsule
Ammonium Sulfate	Protein Purifier	ActHIB	Hib	Ingredient in purification
Ammonium Sulfate	Protein Purifier	Adacel	Tdap	Ingredient in purification
Ammonium Sulfate	Protein Purifier	Daptacel	DTaP	Ingredient in purification
Ammonium Sulfate	Protein Purifier	DT	DT	Ingredient in purification
Ammonium Sulfate	Protein Purifier	Pentacel	DTaP+IPV+Hib	Ingredient in purification

<b>Ammonium Sulfate</b>	Protein Purifier	Prevnar	Pneumococcal 7-valent	Ingredient in purification
<b>Ammonium Sulfate</b>	Protein Purifier	Prevnar 13	Pneumococcal 13-valent	Ingredient in purification
<b>Ammonium Sulfate</b>	Protein Purifier	Td	Td	Ingredient in purification
<b>Amphotericin B</b>	Antimicrobial	RabAvert	Rabies	< 2 ng
<b>Ascorbic Acid</b>	Anitoxidant	Vivotif	Typhoid	1-5 mg/capsule
<b>Benzethonium Chloride</b>	Preservative	BioThrax	Anthrax	25 mcg/mL
<b>Beta-Propiolactone</b>	Viral Inactivator	Afluria	Influenza	< 2 ng
<b>Beta-Propiolactone</b>	Viral Inactivator	Flucelvax	Influenza	≤ 0.5 mcg
<b>Beta-Propiolactone</b>	Viral Inactivator	Fluvirin	Influenza	≤ 5 mcg
<b>Beta-Propiolactone</b>	Viral Inactivator	Imovax	Rabies	< 50 ppm
<b>Bovine Casein</b>	Medium Nutrient	Boostrix	Tdap	Amount not specified in Package Insert
<b>Bovine Casein</b>	Medium Nutrient	Infanrix	DTaP	12.2-18.3 ng/mL
<b>Bovine Casein</b>	Medium Nutrient	Kinrix	DTaP+IPV	Ingredient in Latham medium
<b>Bovine Casein</b>	Medium Nutrient	Pediarix	DTaP+HepB+IPV	Ingredient of Latham medium
<b>Bovine Casein</b>	Medium Nutrient	Vivotif	Typhoid	Ingredient in medium
<b>Bovine Extract</b>	Medium Nutrient	Boostrix	Tdap	Amount not specified in Package Insert
<b>Bovine Extract</b>	Medium Nutrient	DT	DT	Amount not specified in Package Insert
<b>Bovine Extract</b>	Stabilizer	Infanrix	DTaP	Ingredient in Fenton medium
<b>Bovine Extract</b>	Stabilizer	Kinrix	DTaP+IPV	Ingredient in Fenton medium
<b>Bovine Extract</b>	Stabilizer	Pediarix	DTaP+HepB+IPV	Ingredient of Fenton medium
<b>Bovine Extract</b>	Stabilizer	Td	Td	Ingredient in Mueller's media
<b>Bovine, Casamino Acid</b>	Stabilizer	Adacel	Tdap	8.1-17.3 ng/mL
<b>Bovine, Casamino Acid</b>	Stabilizer	Daptacel	DTaP	10 ng/mL
<b>Bovine, Casamino Acid</b>	Stabilizer	Menomune	Meningococcal	Ingredient in growth medium
<b>Bovine, Casamino Acid</b>	Stabilizer	Pentacel	DTaP+IPV+Hib	Ingredient in growth medium
<b>Bovine, Casamino Acid</b>	Stabilizer	Prevnar	Pneumococcal 7-valent	Ingredient in growth medium
<b>Bovine, Casamino Acid</b>	Stabilizer	Prevnar 13	Pneumococcal 13-valent	Ingredient in growth medium
<b>Calcium Carbonate</b>	Buffer	Rotarix	Rotavirus	Ingredient in diluent
<b>Calcium Chloride</b>	Medium Nutrient	Afluria	Influenza	1.5 mcg
<b>Calcium Chloride</b>	Medium Nutrient	Rotarix	Rotavirus	In DMEM (Dulbecco's Modified Eagle Medium)
<b>Carbohydrates</b>	Medium Nutrient	Gardasil	HPV	Ingredient in fermentation medium
<b>Cetyltrimethylammonium Bromide (CTAB)</b>	Protein Purifier	Agriflu	Influenza	≤ 12 mcg
<b>CTAB</b>	Protein Purifier	Flucelvax	Influenza	≤ 13.5 mcg
<b>Chick Embryo</b>	Residual Medium	MMR-II	MMR	No intact cells (may have trace residual protein)
<b>Chick Embryo</b>	Residual Medium	ProQuad	MMRV	No intact cells (may have trace residual protein)
<b>Chick fibroblasts</b>	Protein Purifier	RabAvert	Rabies	Growth medium
<b>Chlortetracycline</b>	Antimicrobial	RabAvert	Rabies	1 mcg
<b>Dextrose</b>	Medium Nutrient	Comvax	Hib+HepB	Amount not specified in Package Insert
<b>Dextrose</b>	Medium Nutrient	Recombivax HB	HepB	Ingredient of fermentation medium
<b>Dextrose</b>	Medium Nutrient	TwinRix	HepA+HepB	Amount not specified in Package Insert
<b>Dextrose</b>	Medium Nutrient	Vivotif	Typhoid	Ingredient in medium
<b>D-glucose</b>	Medium Nutrient	Rotarix	Rotavirus	In DMEM (Dulbecco's Modified Eagle Medium)
<b>Dimethyl-beta-cyclodextrin</b>	Medium Nutrient	Adacel	Tdap	Amount not specified in Package Insert
<b>Dimethyl-beta-cyclodextrin</b>	Medium Nutrient	Daptacel	DTaP	Amount not specified in Package Insert
<b>Dimethyl-beta-cyclodextrin</b>	Medium Nutrient	Pentacel	DTaP+IPV+Hib	Ingredient of Stainer-Scholte medium
<b>DNA</b>	Residual Medium	Flublok	Influenza	≤ 10 ng
<b>DNA</b>	Residual Medium	Flucelvax	Influenza	≤ 10 ng MDCK cell
<b>DNA</b>	Residual Medium	Ixiaro	Japanese Encephalitis	≤ 200 pg/mL ('host cell DNA')
<b>DNA</b>	Residual Medium	ProQuad	MMRV	Residual component of MRC-5 cells
<b>DNA</b>	Residual Medium	RotaTeq	Rotavirus	
<b>DNA</b>	Residual Medium	Vaqta	HepA	< 4 x 10 <sup>-6</sup> mcg
<b>DNA</b>	Residual Medium	Varivax	Varicella	Residual component of MRC-5 cells
<b>DNA</b>	Residual Medium	Zostavax	Zoster	Residual component of MRC-5 cells
<b>Egg Protein</b>	Residual Medium	Agriflu	Influenza	<0.4 mcg (residual amounts)
<b>Egg Protein</b>	Residual Medium	Fluarix	Influenza	
<b>Egg Protein</b>	Residual Medium	Fluarix	Influenza	
<b>Egg Protein</b>	Residual Medium	FluMist	Influenza	
<b>Egg Protein</b>	Residual Medium	Fluvirin	Influenza	≤ 1 mcg ovalbumin
<b>Egg, Allantoic fluid</b>	Residual Medium	FluMist	Influenza	Amount not specified in Package Insert
<b>Ethylene diamine-Tetracetic Acid Sodium (EDTA)</b>	Preservative	FluMist	Influenza	< 0.37 mcg/dose
<b>EDTA</b>	Preservative	RabAvert	Rabies	0.3 mg sodium EDTA
<b>EDTA</b>	Preservative	Varivax	Varicella	Trace amounts
<b>Ferric (III) Nitrate</b>	Medium Nutrient	Rotarix	Rotavirus	In DMEM (Dulbecco's Modified Eagle Medium)
<b>Formaldehyde</b>	Inactivating Agent	ActHIB	Hib	< 0.5 mcg
<b>Formaldehyde</b>	Inactivating Agent	Adacel	Tdap	≤ 5 mcg
<b>Formaldehyde</b>	Inactivating Agent	Agriflu	Influenza	≤ 10 mcg
<b>Formaldehyde</b>	Inactivating Agent	BioThrax	Anthrax	100 mg/mL
<b>Formaldehyde</b>	Inactivating Agent	Boostrix	Tdap	≤ 100 mcg (residual)

<b>Formaldehyde</b>	Inactivating Agent	Comvax	Hib+HepB	≤ 0.0004% (w/v) residual
<b>Formaldehyde</b>	Inactivating Agent	Daptacel	DTaP	≤ 5 mcg (residual)
<b>Formaldehyde</b>	Inactivating Agent	DT	DT	< 0.02%
<b>Formaldehyde</b>	Inactivating Agent	Fluarix	Influenza	≤ 5 mcg
<b>Formaldehyde</b>	Inactivating Agent	Flulaval	Influenza	≤ 25 mcg
<b>Formaldehyde</b>	Inactivating Agent	FluZone	Influenza	≤ 100 mcg/.5mL in Fluzone
<b>Formaldehyde</b>	Inactivating Agent	FluZone Intradermal	Influenza	≤ 20 mcg in Fluzone Intradermal
<b>Formaldehyde</b>	Inactivating Agent	Havrix	HepA	≤ 0.1 mg/mL formalin
<b>Formaldehyde</b>	Inactivating Agent	Hiberix	Hib	< 0.5 mcg (residual)
<b>Formaldehyde</b>	Inactivating Agent	Infanrix	DTaP	≤ 100 mcg (residual)
<b>Formaldehyde</b>	Inactivating Agent	IPOL	Polio	≤ 0.02%
<b>Formaldehyde</b>	Inactivating Agent	Ixiaro	Japanese Encephalitis	≤ 200 pmm
<b>Formaldehyde</b>	Inactivating Agent	JE-Vax	Japanese Encephalitis	< 100 mcg
<b>Formaldehyde</b>	Inactivating Agent	Kinrix	DTaP+IPV	≤ 100 mcg (residual)
<b>Formaldehyde</b>	Inactivating Agent	Menhibrix	Meningococcal CY+Hib	≤ 0.72 mcg
<b>Formaldehyde</b>	Inactivating Agent	Menactra	Meningococcal	< 2.66 mcg
<b>Formaldehyde</b>	Inactivating Agent	Menveo	Meningococcal	≤ 0.3 mcg
<b>Formaldehyde</b>	Inactivating Agent	Pediarix	DTaP+HepB+IPV	≤ 100 mcg (residual)
<b>Formaldehyde</b>	Inactivating Agent	Pentacel	DTaP+IPV+Hib	≤ 5 mcg (residual)
<b>Formaldehyde</b>	Inactivating Agent	Recombivax HB	HepB	< 15 mcg/mL (residual)
<b>Formaldehyde</b>	Inactivating Agent	Td	Td	< 100 mcg
<b>Formaldehyde</b>	Inactivating Agent	Twinrix	HepA+HepB	≤ 0.1 mg formalin
<b>Formaldehyde</b>	Inactivating Agent	Vaqta	HepA	< 0.8 mcg
<b>Galactose</b>	Medium Nutrient	Vivotif	Typhoid	Ingredient in medium
<b>Gelatin</b>	Stabilizer	FluZone	Influenza	0.05% in 0.25 mL and 0.5 mL Fluzone None in Fluzone HiDose or Intradermal
<b>Gelatin</b>	Manufacturing residue	JE-Vax	Japanese Encephalitis	500 mcg
<b>Gelatin</b>	Stabilizer	YF-Vax	Yellow Fever	Amount not specified in Package Insert
<b>Gelatin, Bovine</b>	Stabilizer, solvent	RabAvert	Rabies	12 mg polygeline
<b>Gelatin, hydrolyzed</b>	Stabilizer	MMR-II	MMR	14.5 mg
<b>Gelatin, hydrolyzed</b>	Stabilizer	ProQuad	MMRV	11 mg
<b>Gelatin, hydrolyzed</b>	Stabilizer	Varivax	Varicella	12.5 mg
<b>Gelatin, Porcine, Hydrolyzed</b>	Stabilizer	FluMist	Influenza	2.00 mg/0.2 mLdose
<b>Gelatin, Porcine, Hydrolyzed</b>	Stabilizer	Zostavax	Varicella Zoster	15.58 mg
<b>Gentamicin Sulfate</b>	Antimicrobial	Fluarix	Influenza	≤ 0.15 mcg
<b>Gentamicin Sulfate</b>	Antimicrobial	FluMist	Influenza	< 0.015 mcg/mL
<b>Glutamate</b>	Medium Nutrient	MMR-II	MMR	Ingredient in growth medium (Medium 199)
<b>Glutaraldehyde</b>	Inactivating Agent	Adacel	Tdap	< 50 ng (residual)
<b>Glutaraldehyde</b>	Inactivating Agent	Boostrix	Tdap	Amount not specified in Package Insert
<b>Glutaraldehyde</b>	Inactivating Agent	Daptacel	DTaP	< 50 ng (residual)
<b>Glutaraldehyde</b>	Inactivating Agent	Infanrix	DTaP	Amount not specified in Package Insert
<b>Glutaraldehyde</b>	Inactivating Agent	Kinrix	DTaP+IPV	Amount not specified in Package Insert
<b>Glutaraldehyde</b>	Inactivating Agent	Pediarix	DTaP+HepB+IPV	Amount not specified in Package Insert
<b>Glutaraldehyde</b>	Inactivating Agent	Pentacel	DTaP+IPV+Hib	< 50 ng (residual)
<b>Glycerin</b>	Stabilizer	ACAM2000	Smallpox	50% v/v in diluent
<b>HEPES</b>	Buffer	ACAM2000	Smallpox	6-8 mM
<b>Hexadecyltrimethylammonium Bromide</b>	Protein Purifier	Typhim Vi	Typhoid	Amount not specified in Package Insert
<b>Hydrocortisone</b>	Medium Nutrient	Fluarix	Influenza	≤ 0.0016 mcg
<b>Insect cell</b>	Residual medium	Cervarix	HPV	≤ 40 ng
<b>Kanamycin</b>	Antimicrobial	Agiful	Influenza	≤ 0.03 mcg
<b>Lactalbumin Hydrolysate</b>	Medium Nutrient	Kinrix	DTaP+IPV	Ingredient in growth medium
<b>Lactalbumin Hydrolysate</b>	Medium Nutrient	Pediarix	DTaP+HepB+IPV	Ingredient in growth medium
<b>Lactose</b>	Stabilizer	Hiberix	Hib	12.6 mg
<b>Lactose</b>	Stabilizer	Meactra	Meningococcal	2.5-5 mg
<b>Lactose</b>	Stabilizer	Menomune	Meningococcal	2.5-5 mg
<b>Lactose</b>	Stabilizer	Vivotif	Typhoid	100-180 mg/capsule
<b>L-cystine</b>	Medium Nutrient	Rotarix	Rotavirus	Amount not specified in Package Insert
<b>L-histidine</b>	Medium Nutrient	Gardasil	HPV	0.78 mg
<b>L-tyrosine</b>	Medium Nutrient	Rotarix	Rotavirus	Amount not specified in Package Insert
<b>Magnesium Stearate</b>	Lubricant for capsule filling	Vivotif	Typhoid	3.6-4.4 mg/capsule
<b>Magnesium Sulfate</b>	Medium Nutrient	Rotarix	Rotavirus	Amount not specified in Package Insert
<b>Mannitol</b>	Stabilizer	ACAM2000	Smallpox	5%
<b>Monosodium glutamate</b>	Stabilizer	FluMist	Influenza	0.188 mg/0.2 mL dose
<b>Monosodium L-glutamate</b>	Stabilizer	ProQuad	MMRV	0.40 mg
<b>Monosodium L-glutamate</b>	Stabilizer	Zostavax	Varicella Zoster	0.62 mg
<b>Monosodium L-glutimate</b>	Stabilizer	Varivax	Varicella	0.5 mg
<b>Mouse Serum Protein</b>	Manufacturing residue	JE-Vax	Japanese Encephalitis	< 50 ng
<b>MRC-5</b>	Manf residue	Havrix	HepA	≤ 5 mcg/mL

<b>MRC-5</b>	Manf residue	Imovax	Rabies	Amount not specified in Package Insert
<b>MRC-5</b>	Growth Medium	Pentacel	DTaP+IPV+Hib	Amount not specified in Package Insert
<b>MRC-5</b>	Manf residue	ProQuad	MMRV	Residual
<b>MRC-5</b>	Manf residue	Twinrix	HepA+HepB	≤2.5 mcg
<b>MRC-5</b>	Manf residue	Vaqta	HepA	Amount not specified in Package Insert
<b>MRC-5</b>	Manf residue	Varivax	Varicella	Residual components
<b>MRC-5</b>	Manf residue	Zostavax	Varicella Zoster	Residual
<b>Neomycin</b>	Antimicrobial	ACAM2000	Smallpox	Trace amounts
<b>Neomycin</b>	Antimicrobial	Agriflu	Influenza	≤0.02 mcg (residual amounts)
<b>Neomycin</b>	Antimicrobial	Fluvirin	Influenza	≤2.5 mcg
<b>Neomycin</b>	Antimicrobial	IPOL	IPV	< 5 ng
<b>Neomycin</b>	Antimicrobial	Kinrix	DTaP+IPV	≤ 0.05 ng
<b>Neomycin</b>	Antimicrobial	MMR-II	MMR	25 mcg
<b>Neomycin</b>	Antimicrobial	Pediarix	DTaP+HepB+IPV	≤ 0.05 ng
<b>Neomycin</b>	Antimicrobial	Pentacel	DTaP+IPV+Hib	< 4 pg
<b>Neomycin</b>	Antimicrobial	ProQuad	MMRV	< 16 mcg
<b>Neomycin</b>	Antimicrobial	RabAvert	Rabies	<1 mcg
<b>Neomycin</b>	Antimicrobial	Vaqta	HepA	Residual
<b>Neomycin</b>	Antimicrobial	Varivax	Varicella	Trace amounts
<b>Neomycin</b>	Antimicrobial	Zostavax	Varicella Zoster	Trace amounts
<b>Neomycin Sulfate</b>	Antimicrobial	Afluria	Influenza	≤3 ng
<b>Neomycin Sulfate</b>	Antimicrobial	Havrix	HepA	≤ 40ng/mL
<b>Neomycin Sulfate</b>	Antimicrobial	Imovax	Rabies	<150 mcg
<b>Neomycin Sulfate</b>	Antimicrobial	Twinrix	HepA+HepB	≤ 20 ng
<b>Nonylphenol Ethoxylate</b>	Surfactant	Fluvirin	Influenza	≤ 0.15% w/v
<b>Octoxynol-10 (Triton X-100)</b>	Surfactant	Fluarix	Influenza	≤ 0.085 mg
<b>Octylphenol Ethoxylate (Triton X-100)</b>	Surfactant	FluZone	Influenza	≤ 150 mcg/0.5mL Fluzone ≤250 mcg in Fluzone HiDose ≤50 mcg in Fluzone Intradermal
<b>Peptone</b>	Medium Nutrient	DT	TD	Amount not specified in Package Insert
<b>Peptone, Soy</b>	Medium Nutrient	Comvax	Hib+HepB	Amount not specified in Package Insert
<b>Peptone, Soy</b>	Medium Nutrient	Prevnar	Pneumococcal 7-valent	Growth medium
<b>Peptone, Soy</b>	Medium Nutrient	Prevnar 13	Pneumococcal 13-valent	Growth medium
<b>Peptone, Soy</b>	Medium Nutrient	Recombivax HB	HepB	Ingredient of fermentation medium
<b>Phenol</b>	Preservative, antibacterial	ACAM2000	Smallpox	0.25% v/v in diluent
<b>Phenol</b>	Preservative, antibacterial	Comvax	Hib+HepB	Ingredient in purification procedure
<b>Phenol</b>	Preservative, antibacterial	PedvaxHIB	Hib+HepB	Ingredient in purification procedure
<b>Phenol</b>	Preservative	Pneumovax 23	Pneumococcal 23-valent	Saline containing 0.25% phenol
<b>Phenol</b>	Preservative, antibacterial	Typhim Vi	Typhoid	0.25%
<b>Phenol Red Indicator</b>	pH indicator, dye	Imovax	Rabies	20 mcg
<b>Phenol Red Indicator</b>	pH indicator, dye	Rotarix	Rotavirus	Ingredient of Growth Medium
<b>Phosphate Buffer</b>	Buffer	Afluria	Influenza	20 mcg potassium phosphate monobasic 80 mcg sodium phosphate monobasic 300 mcg sodium phosphate dibasic
<b>Phosphate Buffer</b>	Buffer	Cervarix	HPV	0.624 mg sodium dihydrogen phosphate dihydrate
<b>Phosphate Buffer</b>	Buffer	Engerix-B	HepB	0.98 mg/mL Disodium Phosphate Dihydrate 0.71 mg/mL Sodium Dihydrogen Phosphate Dihydrate
<b>Phosphate Buffer</b>	Buffer	Flublok	Influenza	0.195 mcg sodium phosphate monobasic 1.3 mg sodium phosphate dibasic
<b>Phosphate Buffer</b>	Buffer	FluMist	Influenza	0.96 mg/0.2 mL dose potassium phosphate monobasic 2.26 mg/dose potassium phosphate dibasic
<b>Phosphate Buffer</b>	Buffer	FluZone	Influenza	Sodium phosphate-buffered isotonic sodium chloride solution - "quantity sufficient to appropriate volume"
<b>Phosphate Buffer</b>	Buffer	Havrix	HepA	Phosphate-buffered saline solution
<b>Phosphate Buffer</b>	Buffer	Ixiaro	Japanese Encephalitis	potassium dihydrogen phosphate 0.5 mL phosphate buffered saline
<b>Phosphate Buffer</b>	Buffer	Menactra	Meningococcal	Amount not specified in Package Insert
<b>Phosphate Buffer</b>	Buffer	MMR-II	MMR	Sodium phosphate
<b>Phosphate Buffer</b>	Buffer	ProQuad	MMRV	36 mcg potassium phosphate dibasic 72 mcg potassium phosphate monobasic 0.34 mg sodium phosphate dibasic
<b>Phosphate Buffer</b>	Buffer	Rotarix	Rotavirus	Sodium phosphate in DMEM (medium)
<b>Phosphate Buffer</b>	Buffer	RotaTeq	Rotavirus	Sodium phosphate monobasic monohydrate
<b>Phosphate Buffer</b>	Buffer	Twinrix	HepA+HepB	Amount not specified in Package Insert
<b>Phosphate Buffer</b>	Buffer	Typhim Vi	Typhoid	0.065 mg Disodium Phosphate

				0.023 mg Monosodium Phosphate
<b>Phosphate Buffer</b>	Buffer	Varivax	Varicella	0.08 mg potassium phosphate monobasic 0.45 mg sodium phosphate dibasic Sodium phosphate monobasic, trace amounts
<b>Phosphate Buffer</b>	Buffer	Zostavax	Varicella Zoster	0.10 mg potassium phosphate monobasic 0.57 mg sodium phosphate monobasic
<b>Polymyxin</b>	Antimicrobial	Fluvirin	Influenza	≤3.75 mcg
<b>Polymyxin B</b>	Antimicrobial	ACAM2000	Smallpox	Trace amounts
<b>Polymyxin B</b>	Antimicrobial	Afluria	Influenza	≤ 0.5 g
<b>Polymyxin B</b>	Antimicrobial	IPL	Polio	25 ng
<b>Polymyxin B</b>	Antimicrobial	Kinrix	DTaP+IPV	≤ 0.01 ng
<b>Polymyxin B</b>	Antimicrobial	Pediarix	DTaP+HepB+IPV	≤ 0.01 ng
<b>Polymyxin B</b>	Antimicrobial	Pentacel	DTaP+IPV+Hib	< 4 pg
<b>Polysorbate 20</b>	Surfactant	Flublok	Influenza	≤ 27.5 mcg (Tween 20)
<b>Polysorbate 20</b>	Surfactant	Havrix	HepA	0.05 mg/mL
<b>Polysorbate 20</b>	Surfactant	Twinrix	HepA+HepB	Amount not specified in Package Insert
<b>Polysorbate 80</b>	Surfactant	Agriflu	Influenza	≤ 50 mcg
<b>Polysorbate 80</b>	Surfactant	Boostrix	Tdap	≤ 100 mcg (Tween 80)
<b>Polysorbate 80</b>	Surfactant	Fluarix	Influenza	≤ 0.415 mg (Tween 80)
<b>Polysorbate 80</b>	Surfactant	Flucelvax	Influenza	≤1125 mcg (Tween 80)
<b>Polysorbate 80</b>	Surfactant	Gardasil	HPV	50 mcg
<b>Polysorbate 80</b>	Surfactant	Infanrix	DTaP	≤ 100 mcg (Tween 80)
<b>Polysorbate 80</b>	Surfactant	JE-Vax	Japanese Encephalitis	< 0.0007%
<b>Polysorbate 80</b>	Surfactant	Kinrix	DTaP+IPV	≤ 100 mcg (Tween 80)
<b>Polysorbate 80</b>	Surfactant	Pediarix	DTaP+HepB+IPV	≤ 100 mcg (Tween 80)
<b>Polysorbate 80</b>	Surfactant	Pentacel	DTaP+IPV+Hib	10 ppm
<b>Polysorbate 80</b>	Surfactant	Prevnar 13	Pneumococcal 13-valent	100 mcg
<b>Polysorbate 80</b>	Surfactant	RotaTeq	Rotavirus	Amount not specified in Package Insert
<b>Porcine DNA</b>	Residual Medium	Rotarix	Rotavirus	PCV-1
<b>Porcine DNA</b>	Residual Medium	RotaTeq	Rotavirus	PCV-1 and PCV-2
<b>Potassium Aluminum Sulfate</b>	Adjuvant	Comvax	Hib+HepB	Amount not specified in Package Insert
<b>Potassium Aluminum Sulfate</b>	Adjuvant	Recombivax HB	HepB	Amount not specified in Package Insert
<b>Potassium Chloride</b>	Buffer	Afluria	Influenza	20 mcg
<b>Potassium Chloride</b>	Buffer	ProQuad	MMRV	60 mcg
<b>Potassium Chloride</b>	Medium Nutrient	Rotarix	Rotavirus	in medium
<b>Potassium Chloride</b>	Buffer	Varivax	Varicella	0.08 mg
<b>Potassium Chloride</b>	Buffer	Zostavax	Varicella Zoster	0.10 mg
<b>Potassium Glutamate</b>	Stabilizer	RabAvert	Rabies	1 mg
<b>Protamine Sulfate</b>	Protein Purifier	Ixiaro	Japanese Encephalitis	≤ 1 mg/mL
<b>Salts</b>	Adjust tonicity	Pneumovax 23	Pneumococcal 23-valent	Amount not specified in Package Insert
<b>Salts and Sugars, Inorganic</b>	Medium Nutrient	BioThrax	Anthrax	Amount not specified in Package Insert
<b>Salts, Inorganic</b>	Medium Nutrient	Twinrix	HepA+HepB	Sodium chloride
<b>Salts, Mineral</b>	Adjust tonicity	ACAM2000	Smallpox	0.5-0.7% (sodium chloride)
<b>Salts, Mineral</b>	Adjust tonicity	ActHIB	Hib	0.4% sodium chloride in diluent
<b>Salts, Mineral</b>	Adjust tonicity	Afluria	Influenza	4.1 mg sodium chloride
<b>Salts, Mineral</b>	Adjust tonicity	BioThrax	Anthrax	0.85% sodium chloride
<b>Salts, Mineral</b>	Adjust tonicity	Boostrix	Tdap	4.5 mg sodium chloride
<b>Salts, Mineral</b>	Adjust tonicity	Cervarix	HPV	4.4 mg sodium chloride
<b>Salts, Mineral</b>	Adjust tonicity	Comvax	Hib+HepB	0.9% sodium chloride
<b>Salts, Mineral</b>	Adjust tonicity	Engerix-B	HepB	9 mg/mL sodium chloride
<b>Salts, Mineral</b>	Adjust tonicity	Flublok	Influenza	4.4 mg sodium chloride
<b>Salts, Mineral</b>	Adjust tonicity	Gardasil	HPV	9.56 mg sodium chloride
<b>Salts, Mineral</b>	Adjust tonicity	Hiberix	Hib	0.9% sodium chloride in diluent
<b>Salts, Mineral</b>	Adjust tonicity	Infanrix	DTaP	4.5 mg sodium chloride
<b>Salts, Mineral</b>	Adjust tonicity	Kinrix	DTaP+IPV	4.5 mg sodium chloride
<b>Salts, Mineral</b>	Adjust tonicity	Menhibrix	Meningococcal CY+Hib	0.9% sodium chloride
<b>Salts, Mineral</b>	Adjust tonicity	MMR-II	MMR	sodium chloride
<b>Salts, Mineral</b>	Adjust tonicity	Pediarix	DTaP+HepB+IPV	4.5 mg sodium chloride
<b>Salts, Mineral</b>	Adjust tonicity	PedvaxHIB	Hib+HepB	0.9% sodium chloride
<b>Salts, Mineral</b>	Adjust tonicity	ProQuad	MMRV	2.4 mg sodium chloride
<b>Salts, Mineral</b>	Adjust tonicity	Recombivax HB	HepB	Ingredient of fermentation medium
<b>Salts, Mineral</b>	Adjust tonicity	Rotarix	Rotavirus	In DMEM (Dulbecco's Modified Eagle Medium)
<b>Salts, Mineral</b>	Adjust tonicity	Twinrix	HepA+HepB	Sodium chloride
<b>Salts, Mineral</b>	Adjust tonicity	Typhim Vi	Typhoid	4.150 mg sodium chloride
<b>Salts, Mineral</b>	Adjust tonicity	Vaqta	HepA	0.9% sodium chloride
<b>Salts, Mineral</b>	Adjust tonicity	Varivax	Varicella	3.2 mg sodium chloride
<b>Salts, Mineral</b>	Adjust tonicity	YF-Vax	Yellow Fever	Diluent
<b>Salts, Mineral</b>	Adjust tonicity	Zostavax	Varicella Zoster	3.99 mg sodium chloride
<b>Sodium Bicarbonate</b>	Buffer	ProQuad	MMRV	0.17 mg
<b>Sodium Borate</b>	Buffer	Comvax	Hib+HepB	35 mcg (decahydrate)
<b>Sodium Borate</b>	Buffer	Gardasil	HPV	35 mcg
<b>Sodium Borate</b>	Buffer	Vaqta	HepA	70 mcg/mL

<b>Sodium Citrate</b>	Adjust pH	RotaTeq	Rotavirus	Amount not specified in Package Insert
<b>Sodium Deoxycholate</b>	Surfactant	Fluarix	Influenza	≤ 50 mcg
<b>Sodium Deoxycholate</b>	Surfactant	Flulaval	Influenza	≤ 50 mcg
<b>Sodium Metabisulphite</b>	Stabilizer	Ixiaro	Japanese Encephalitis	≤ 200 ppm
<b>Sodium Pyruvate</b>	Medium Nutrient	Rotarix	Rotavirus	in DMEM (medium)
<b>Sodium Taurodeoxycholate</b>	Protein Purifier	Afluria	Influenza	≤ 10 ppm (residual amounts)
<b>Sorbitol</b>	Stabilizer, solvent	MMR-II	MMR	14.5 mg
<b>Sorbitol</b>	Stabilizer, solvent	ProQuad	MMRV	1.8 mg
<b>Sorbitol</b>	Stabilizer, solvent	Rotarix	Rotavirus	Amount not specified in Package Insert
<b>Sorbitol</b>	Stabilizer, solvent	YF-Vax	Yellow Fever	Amount not specified in Package Insert
<b>Streptomycin</b>	Antimicrobial	IPOL	Polio	200 ng
<b>Succinate Buffer</b>	Stabilizer	Pprevnar 13	Pneumococcal 13-valent	295 mcg
<b>Sucrose</b>	Stabilizer	ActHIB	Hib	8.5%
<b>Sucrose</b>	Stabilizer	FluMist	Influenza	13.68 mg/dose
<b>Sucrose</b>	Stabilizer	JE-Vax	Japanese Encephalitis	40% w/v
<b>Sucrose</b>	Stabilizer	Menhibrix	Meningococcal CY+Hib	12.6 mg
<b>Sucrose</b>	Stabilizer	MMR-II	MMR	1.9 mg
<b>Sucrose</b>	Stabilizer	Pentacel	DTaP+IPV+Hib	42.5 mg
<b>Sucrose</b>	Stabilizer	ProQuad	MMRV	≤ 21 mg
<b>Sucrose</b>	Stabilizer	Rotarix	Rotavirus	Amount not specified in Package Insert
<b>Sucrose</b>	Stabilizer	RotaTeq	Rotavirus	Amount not specified in Package Insert
<b>Sucrose</b>	Stabilizer	Varivax	Varicella	25 mg
<b>Sucrose</b>	Stabilizer	Vivotif	Typhoid	26-130 mg/capsule
<b>Sucrose</b>	Stabilizer	Zostavax	Varicella Zoster	31.16 mg
<b>Thimerosal</b>	Preservative	Afluria	Influenza	24.5 mcg mercury
<b>Thimerosal</b>	Manufacturing Residual	DT	DT	≤ 0.3 mcg mercury, trace amounts
<b>Thimerosal</b>	Preservative	Flulaval	Influenza	< 25 mcg mercury
<b>Thimerosal</b>	Preservative	Fluvirin	Influenza	25 mcg mercury/dose in multidose vial ≤ 0.1 mcg mercury in prefilled syringe
<b>Thimerosal</b>	Preservative	Fluzone	Influenza	None in .25 mL, Fluzone HiDose or Intradermal 25 mcg mercury/0.5mL in Fluzone
<b>Thimerosal</b>	Preservative	JE-Vax	Japanese Encephalitis	0.007%
<b>Thimerosal</b>	Preservative	Menomune	Meningococcal	None in single-dose 25 mcg mercury/dose in multi-dose diluent
<b>Thimerosal</b>	Manufacturing Residue	Td	Td	≤ 0.3 mcg mercury, trace amounts
<b>Thimerosal</b>	Manufacturing Residue	Tripedia	DTaP	≤ 0.3 mcg mercury, trace amounts
<b>Vero Cells</b>	Growth Medium	ACAM2000	Smallpox	Amount not specified in Package Insert
<b>Vero Cells</b>	Growth Medium	IPOL	Polio	Amount not specified in Package Insert
<b>Vero cells</b>	Medium Nutrient	Ixiaro	Japanese Encephalitis	Amount not specified in Package Insert
<b>Vero Cells</b>	Growth Medium	Kinrix	DTaP+IPV	Amount not specified in Package Insert
<b>Vero Cells</b>	Growth Medium	Pediarix	DTaP+HepB+IPV	Amount not specified in Package Insert
<b>Vero Cells</b>	Growth Medium	Rotarix	Rotavirus	Amount not specified in Package Insert
<b>Vero Cells</b>	Growth Medium	RotaTeq	Rotavirus	Amount not specified in Package Insert
<b>Vitamins</b>	Medium Nutrient	BioThrax	Anthrax	Ingredient of growth medium
<b>Vitamins</b>	Medium Nutrient	Cervarix	HPV	Ingredient of growth medium
<b>Vitamins</b>	Protein Purifier	Fluarix	Influenza	≤ 0.1 mg α-Tocopheryl Hydrogen Succinate
<b>Vitamins</b>	Protein Purifier	Flublok	Influenza	Ingredient of growth medium
<b>Vitamins</b>	Medium Nutrient	Gardasil	HPV	Ingredient of growth medium
<b>Vitamins</b>	Medium Nutrient	MMR-II	MMR	Ingredient in grown media
<b>Vitamins</b>	Medium Nutrient	Rotarix	Rotavirus	Amount not specified in Package Insert
<b>Xanthan</b>	Thickening agent	Rotarix	Rotavirus	Ingredient in diluent
<b>Yeast</b>	Medium Nutrient	Comvax	Hib+HepB	≤ 1% yeast protein
<b>Yeast</b>	Medium Nutrient	Engerix-B	HepB	≤ 5% yeast protein
<b>Yeast</b>	Medium Nutrient	Gardasil	HPV	< 7 mcg yeast protein/dose
<b>Yeast</b>	Medium Nutrient	Menveo	Meningococcal	Ingredient in growth medium
<b>Yeast</b>	Medium Nutrient	Pediarix	DTaP+HepB+IPV	≤ 5% yeast protein
<b>Yeast</b>	Medium Nutrient	Pprevnar	Pneumococcal 7-valent	Ingredient of growth medium
<b>Yeast</b>	Medium Nutrient	Pprevnar 13	Pneumococcal 13-valent	Ingredient of growth medium
<b>Yeast</b>	Medium Nutrient	Recombivax HB	HepB	≤ 1% yeast protein
<b>Yeast</b>	Medium Nutrient	Twinrix	HepA+HepB	≤ 5% yeast protein
<b>Yeast</b>	Medium Nutrient	Vivotif	Typhoid	Amount not specified in Package Insert

This information is correct to the best of our knowledge. Any inaccuracies should be reported to us at [info@hopkinsvaccine.org](mailto:info@hopkinsvaccine.org)

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