

# Vaccine Excipients by Vaccine Name

updated December 2024

Excipient	Purpose	Vaccine Name	Vaccine Type	Amount per 0.5 mL Dose (unless otherwise noted)
Mannitol	Stabilizer	<b>Abrysvo</b>	RSV	22.5 mg
Polysorbate 80	Surfactant	<b>Abrysvo</b>	RSV	0.08 mg
Salts, Mineral	Adjust tonicity	<b>Abrysvo</b>	RSV	1.1 mg sodium chloride
Sucrose	Stabilizer	<b>Abrysvo</b>	RSV	11.3 mg
Tromethamine	Stabilizer	<b>Abrysvo</b>	RSV	0.11 mg
Tromethamine Hydrochloride	Stabilizer	<b>Abrysvo</b>	RSV	1.04 mg
Ammonium Sulfate	Protein Purifier	<b>ActHIB</b>	Hib	Ingredient in purification
Bovine Casein	Medium Nutrient	<b>ActHIB</b>	Hib	Amount not specified in package insert
Formaldehyde	Inactivating Agent	<b>ActHIB</b>	Hib	<0.5 mcg
Salts, Mineral	Adjust tonicity	<b>ActHIB</b>	Hib	0.4% sodium chloride in diluent
Sucrose	Stabilizer	<b>ActHIB</b>	Hib	8.5%
2-Phenoxyethanol	Stabilizer	<b>Adacel</b>	Tdap	3.3 mg (0.6% v/v) (not as a preservative)
Aluminum Phosphate	Adjuvant	<b>Adacel</b>	Tdap	1.5 mg (0.33 mg aluminum)
Ammonium Sulfate	Protein Purifier	<b>Adacel</b>	Tdap	Ingredient in purification
Bovine, Casamino Acid	Stabilizer	<b>Adacel</b>	Tdap	Amount not specified in package insert
Dimethyl-beta-cyclodextrin	Medium Nutrient	<b>Adacel</b>	Tdap	Amount not specified in package insert
Formaldehyde	Inactivating Agent	<b>Adacel</b>	Tdap	≤5 mcg
Glutaraldehyde	Inactivating Agent	<b>Adacel</b>	Tdap	<50 ng (residual)
Albumin, Egg (Ovalbumin)	Residual Medium	<b>Afluria</b>	Influenza	≤1 mcg
Beta-Propiolactone	Viral Inactivator	<b>Afluria</b>	Influenza	<2.3 ng
Calcium Chloride	Medium Nutrient	<b>Afluria</b>	Influenza	0.5 mcg
Hydrocortisone	Medium Nutrient	<b>Afluria</b>	Influenza	≤0.56 ng
Neomycin Sulfate	Antimicrobial	<b>Afluria</b>	Influenza	≤61.5 ng
Phosphate Buffer	Buffer	<b>Afluria</b>	Influenza	20 mcg monobasic potassium phosphate 80 mcg monobasic sodium phosphate 300 mcg diabasic sodium phosphate
Polymyxin B	Antimicrobial	<b>Afluria</b>	Influenza	≤10.5 ng
Potassium Chloride	Buffer	<b>Afluria</b>	Influenza	20 mcg
Salts, Mineral	Adjust tonicity	<b>Afluria</b>	Influenza	4.1 mg sodium chloride
Sodium Taurodeoxycholate	Protein Purifier	<b>Afluria</b>	Influenza	≤10 ppm (residual)
Sucrose	Stabilizer	<b>Afluria</b>	Influenza	<10 mcg
Thimerosal	Preservative	<b>Afluria</b>	Influenza	24.5 mcg mercury only in multi-dose vial; none in single dose
AS01 <sub>E</sub>	Adjuvant	<b>AREXVY</b>	RSV	Amount not specified in package insert
Cholesterol	Lipid	<b>AREXVY</b>	RSV	0.125 mg
DNA	Residual Medium	<b>AREXVY</b>	RSV	≤0.80 ng/mg
DOPC	Lipid in AS01 <sub>E</sub>	<b>AREXVY</b>	RSV	0.5 mg
Host cell Proteins	Residual medium	<b>AREXVY</b>	RSV	≤2.0%
Phosphate Buffer	Buffer	<b>AREXVY</b>	RSV	4.4 mg sodium chloride 0.83 mg potassium dihydrogen phosphate 0.26 mg dipotassium phosphate 0.15 mg of disodium phosphate anhydrous
Polysorbate 80	Surfactant	<b>AREXVY</b>	RSV	0.18 mg
Salts, Mineral	Adjust tonicity	<b>AREXVY</b>	RSV	4.4 mg sodium chloride
Trehalose	Stabilizer	<b>AREXVY</b>	RSV	14.7 mg
Aluminum Hydroxide	Adjuvant	<b>Bexsero</b>	Meningococcal B	1.5 mg (0.519 mg aluminum)
Histidine	Medium Nutrient	<b>Bexsero</b>	Meningococcal B	0.776 mg
Kanamycin	Antimicrobial	<b>Bexsero</b>	Meningococcal B	<0.01 mcg
Salts, Mineral	Adjust tonicity	<b>Bexsero</b>	Meningococcal B	3.125 mg sodium chloride
Sucrose	Stabilizer	<b>Bexsero</b>	Meningococcal B	10 mg
Aluminum Hydroxide	Adjuvant	<b>Boostrix</b>	Tdap	≤0.3 mg aluminum
Bovine Casein	Medium Nutrient	<b>Boostrix</b>	Tdap	Amount not specified in package insert
Bovine Extract	Medium Nutrient	<b>Boostrix</b>	Tdap	Amount not specified in package insert
Formaldehyde	Inactivating Agent	<b>Boostrix</b>	Tdap	≤100 mcg (residual)
Glutaraldehyde	Inactivating Agent	<b>Boostrix</b>	Tdap	Amount not specified in package insert
Polysorbate 80	Surfactant	<b>Boostrix</b>	Tdap	≤100 mcg (Tween 80)
Salts, Mineral	Adjust tonicity	<b>Boostrix</b>	Tdap	4.4 mg sodium chloride
Dextrose	Medium Nutrient	<b>Capvaxive</b>	Pneumococcal 21	Amount not specified in package insert
L-histidine	Medium Nutrient	<b>Capvaxive</b>	Pneumococcal 21	1.55 mg
Phenol	Inactivating agent	<b>Capvaxive</b>	Pneumococcal 21	Ingredient in purification
Polysorbate 20	Surfactant	<b>Capvaxive</b>	Pneumococcal 21	0.50 mg
Salts, Mineral	Adjust tonicity	<b>Capvaxive</b>	Pneumococcal 21	4.49 mg sodium chloride
Yeast	Medium Nutrient	<b>Capvaxive</b>	Pneumococcal 21	Amount not specified in package insert
(4-hydroxybutyl)azanediyil bis(hexane-6,1-diyl)bis(2-hexyldecanoate)	Lipid	<b>Comirnaty (Pfizer)</b>	COVID-19	0.43 mg/0.3 mL dose
1,2-distearoyl-sn-glycero-3-phosphocholine [DSPC])	Lipid	<b>Comirnaty (Pfizer)</b>	COVID-19	0.09 mg/0.3 mL dose

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Cholesterol	Lipid	<b>Comirnaty (Pfizer)</b>	COVID-19	0.19 mg/0.3 mL dose
Polyethylene Glycol	Lipid	<b>Comirnaty (Pfizer)</b>	COVID-19	0.05 mg 2[(polyethylene glycol)-2000]-N,N-ditetradecylacetamide/0.3 mL dose
Sucrose	Stabilizer	<b>Comirnaty (Pfizer)</b>	COVID-19	31 ng/0.3 mL dose
Tromethamine	Stabilizer	<b>Comirnaty (Pfizer)</b>	COVID-19	0.06 mg/0.3 mL dose
Tromethamine Hydrochloride	Stabilizer	<b>Comirnaty (Pfizer)</b>	COVID-19	0.4 mg/0.3 mL dose
2-Phenoxyethanol	Stabilizer	<b>Daptacel</b>	DTaP	3.3 mg (0.6% v/v) (not as a preservative)
Aluminum Phosphate	Adjuvant	<b>Daptacel</b>	DTaP	1.5 mg (0.33 mg aluminum)
Ammonium Sulfate	Protein Purifier	<b>Daptacel</b>	DTaP	Ingredient in purification
Bovine, Casamino Acid	Stabilizer	<b>Daptacel</b>	DTaP	Amount not specified in package insert
Dimethyl-beta-cyclodextrin	Medium Nutrient	<b>Daptacel</b>	DTaP	Amount not specified in package insert
Formaldehyde	Inactivating Agent	<b>Daptacel</b>	DTaP	≤5 mcg (residual)
Glutaraldehyde	Inactivating Agent	<b>Daptacel</b>	DTaP	<50 ng (residual)
Aluminum Phosphate	Adjuvant	<b>DT</b>	DT	1.5 mg
Bovine Casein	Medium Nutrient	<b>DT</b>	DT	Amount not specified in package insert
Dextrose	Medium Nutrient	<b>DT</b>	DT	Amount not specified in package insert
Formaldehyde	Inactivating Agent	<b>DT</b>	DT	<100 mcg
Salts, Inorganic	Medium Nutrient	<b>DT</b>	DT	Sodium chloride – Amount not specified in package insert
Vitamins	Medium Nutrient	<b>DT</b>	DT	Ingredient in growth medium
Aluminum	Adjuvant	<b>Engerix-B</b>	HepB	0.5 mg/mL aluminum as aluminum hydroxide
Phosphate Buffer	Buffer	<b>Engerix-B</b>	HepB	0.9 mg/mL Disodium phosphate dihydrate 0.7 mg/mL Sodium dihydrogen phosphate dihydrate
Salts, Mineral	Adjust tonicity	<b>Engerix-B</b>	HepB	8 mg/mL sodium chloride
Yeast	Medium Nutrient	<b>Engerix-B</b>	HepB	≤5% yeast protein
Cetyltrimethylammonium Bromide (CTAB)	Protein Purifier	<b>Fluad</b>	Influenza	≤12 mcg
Citric Acid Monohydrate	Buffer	<b>Fluad</b>	Influenza	0.04 mg at pH 6.9-7.7
Egg Protein (ovalbumin)	Residual Medium	<b>Fluad</b>	Influenza	<0.4 mcg
Formaldehyde	Inactivating Agent	<b>Fluad</b>	Influenza	≤10 mcg
Hydrocortisone	Medium Nutrient	<b>Fluad</b>	Influenza	≤0.005 ng
Kanamycin	Antimicrobial	<b>Fluad</b>	Influenza	≤0.03 mcg
MF59	Adjuvant	<b>Fluad</b>	Influenza	Amount not specified in package insert
Neomycin	Antimicrobial	<b>Fluad</b>	Influenza	≤0.02 mcg
Polysorbate 80	Surfactant	<b>Fluad</b>	Influenza	1.175 mg
Sodium Citrate Dihydrate	Buffer	<b>Fluad</b>	Influenza	0.66 mg
Sorbitan Trioleate	Stabilizer	<b>Fluad</b>	Influenza	1.175 mg
Squalene	Adjuvant	<b>Fluad</b>	Influenza	9.75 mg
Albumin, Egg (Ovalbumin)	Residual Medium	<b>Fluarix</b>	Influenza	≤0.05 mcg
Formaldehyde	Inactivating Agent	<b>Fluarix</b>	Influenza	≤5 mcg
Gentamicin Sulfate	Antimicrobial	<b>Fluarix</b>	Influenza	≤0.15 mcg
Hydrocortisone	Medium Nutrient	<b>Fluarix</b>	Influenza	≤0.0015 mcg
Octoxynol-10 (Triton X-100)	Surfactant	<b>Fluarix</b>	Influenza	≤0.085 mg
Polysorbate 80 (Tween 80)	Surfactant	<b>Fluarix</b>	Influenza	≤0.415 mg (Tween 80)
Sodium Deoxycholate	Surfactant	<b>Fluarix</b>	Influenza	≤50 mcg
Vitamins	Protein Purifier	<b>Fluarix</b>	Influenza	≤0.1 mg α-tocopheryl hydrogen succinate
Amino Acid	Medium Nutrient	<b>Flublok</b>	Influenza	Ingredient in growth medium
DNA	Residual Medium	<b>Flublok</b>	Influenza	≤10 ng
Octoxynol-10 (Triton X-100)	Surfactant	<b>Flublok</b>	Influenza	≤100 mcg
Phosphate Buffer	Buffer	<b>Flublok</b>	Influenza	0.2 mcg monobasic sodium phosphate 0.5 mg dibasic sodium phosphate
Polysorbate 20	Surfactant	<b>Flublok</b>	Influenza	≤27.5 mcg (Tween 20)
Salts, Mineral	Adjust tonicity	<b>Flublok</b>	Influenza	4.4 mg sodium chloride
Vitamins	Protein Purifier	<b>Flublok</b>	Influenza	Ingredient in growth medium
Beta-Propiolactone	Viral Inactivator	<b>Flucelvax</b>	Influenza	<0.5 mcg
Cetyltrimethylammonium Bromide (CTAB)	Protein Purifier	<b>Flucelvax</b>	Influenza	≤13.5mcg
DNA	Residual Medium	<b>Flucelvax</b>	Influenza	≤10 ng MDCK cell DNA ≤21.6 mcg MDCK cell protein
Polysorbate 80 (Tween 80)	Surfactant	<b>Flucelvax</b>	Influenza	≤1125 mcg (Tween 80)
Protein	Residual Medium	<b>Flucelvax</b>	Influenza	≤ 225 mcg
Thimerosal	Preservative	<b>Flucelvax</b>	Influenza	<25 mcg mercury only in multi-dose vial; none in single dose
Albumin, Egg (Ovalbumin)	Residual Medium	<b>Flulaval</b>	Influenza	≤0.3 mcg
Formaldehyde	Inactivating Agent	<b>Flulaval</b>	Influenza	≤25 mcg
Polysorbate 80	Surfactant	<b>Flulaval</b>	Influenza	≤665 mcg
Sodium Deoxycholate	Surfactant	<b>Flulaval</b>	Influenza	≤50 mcg
Vitamins	Protein Purifier	<b>Flulaval</b>	Influenza	≤240 mcg α-tocopheryl hydrogen succinate
Albumin, Egg (Ovalbumin)	Residual Medium	<b>FluMist</b>	Influenza	≤0.024 mcg/0.2mL dose

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Arginine		<b>FluMist</b>	Influenza	2.42 mg/0.2mL dose
Ethylenediaminetetraacetic acid (EDTA)	Preservative	<b>FluMist</b>	Influenza	<2.3 mcg/0.2mL dose
Gelatin, Porcine, Hydrolyzed	Stabilizer	<b>FluMist</b>	Influenza	2.00 mg/0.2 mL dose
Gentamicin Sulfate	Antimicrobial	<b>FluMist</b>	Influenza	<0.015 mcg/mL
Monosodium glutamate	Stabilizer	<b>FluMist</b>	Influenza	0.188 mg/0.2 mL dose
Phosphate Buffer	Buffer	<b>FluMist</b>	Influenza	0.96 mg/0.2 mL dose monobasic potassium phosphate 2.26 mg/0.2mL dose dibasic potassium phosphate
Sucrose	Stabilizer	<b>FluMist</b>	Influenza	13.68 mg/0.2 mL dose
Albumin, Egg (Ovalbumin)	Residual Medium	<b>Fluvirin</b>	Influenza	≤1 mcg
Beta-Propiolactone	Viral Inactivator	<b>Fluvirin</b>	Influenza	≤0.5 mcg
Neomycin	Antimicrobial	<b>Fluvirin</b>	Influenza	≤2.5 mcg
Nonylphenol Ethoxylate	Surfactant	<b>Fluvirin</b>	Influenza	≤0.015% w/v
Polymyxin	Antimicrobial	<b>Fluvirin</b>	Influenza	≤3.75 mcg
Thimerosal	Preservative	<b>Fluvirin</b>	Influenza	25 mcg mercury/dose in multi-dose vial; ≤1 mcg/dose mercury in prefilled syringe
Formaldehyde	Inactivating Agent	<b>FluZone</b>	Influenza	≤100 mcg
Octylphenol Ethoxylate (Triton X-100)	Surfactant	<b>FluZone</b>	Influenza	≤150 mcg
Phosphate Buffer	Buffer	<b>FluZone</b>	Influenza	Sodium phosphate-buffered isotonic sodium chloride solution - "quantity sufficient to appropriate volume"
Thimerosal	Preservative	<b>FluZone</b>	Influenza	25 mcg mercury in multi-dose vial; none in single dose
Formaldehyde	Inactivating Agent	<b>FluZone High-Dose</b>	Influenza	≤100 mcg
Octylphenol Ethoxylate (Triton X-100)	Surfactant	<b>FluZone High-Dose</b>	Influenza	≤250 mcg
Phosphate Buffer	Buffer	<b>FluZone High-Dose</b>	Influenza	Sodium phosphate-buffered isotonic sodium chloride solution - "quantity sufficient to appropriate volume"
Aluminum	Adjuvant	<b>Gardasil</b>	HPV	225 mcg as amorphous aluminum hydroxyphosphate sulfate
Amino Acid	Medium Nutrient	<b>Gardasil</b>	HPV	Ingredient in growth medium
Carbohydrates	Medium Nutrient	<b>Gardasil</b>	HPV	Amount not specified in package insert
L-histidine	Medium Nutrient	<b>Gardasil</b>	HPV	0.78 mg
Polysorbate 80	Surfactant	<b>Gardasil</b>	HPV	50 mcg
Salts, Mineral	Adjust tonicity	<b>Gardasil</b>	HPV	9.56 mg sodium chloride
Sodium Borate	Buffer	<b>Gardasil</b>	HPV	35 mcg
Vitamins	Medium Nutrient	<b>Gardasil</b>	HPV	Amount not specified in package insert
Yeast	Medium Nutrient	<b>Gardasil</b>	HPV	<7 mcg yeast protein
Aluminum	Adjuvant	<b>Gardasil 9</b>	HPV	500 mcg as amorphous aluminum hydroxyphosphate sulfate
Amino Acid	Medium Nutrient	<b>Gardasil 9</b>	HPV	Amount not specified in package insert
Carbohydrates	Medium Nutrient	<b>Gardasil 9</b>	HPV	Amount not specified in package insert
L-histidine	Medium Nutrient	<b>Gardasil 9</b>	HPV	0.78 mg
Polysorbate 80	Surfactant	<b>Gardasil 9</b>	HPV	50 mcg
Salts, Mineral	Adjust tonicity	<b>Gardasil 9</b>	HPV	9.56 mg sodium chloride
Sodium Borate	Buffer	<b>Gardasil 9</b>	HPV	35 mcg
Vitamins	Medium Nutrient	<b>Gardasil 9</b>	HPV	Amount not specified in package insert
Yeast	Medium Nutrient	<b>Gardasil 9</b>	HPV	<7 mcg yeast protein
Aluminum	Adjuvant	<b>Havrix</b>	HepA	0.25 mg (as aluminum hydroxide)
Amino Acid	Medium Nutrient	<b>Havrix</b>	HepA	Amino acid supplement - 0.3% w/v
Formaldehyde	Inactivating Agent	<b>Havrix</b>	HepA	≤0.1 mg /mL formalin
MRC-5	Manufacturing Residue	<b>Havrix</b>	HepA	≤5 mcg/mL
Neomycin Sulfate	Antimicrobial	<b>Havrix</b>	HepA	≤40 ng/mL
Polysorbate 20	Surfactant	<b>Havrix</b>	HepA	0.05 mg/mL
CpG 1018	Adjuvant	<b>Heplisav-B</b>	HepB	3000 mcg
Deoxycholate	Emulsifier	<b>Heplisav-B</b>	HepB	<0.9 ppm
Phosphate Buffer	Buffer	<b>Heplisav-B</b>	HepB	9.0 mg/mL sodium chloride 1.75 mg/mL sodium phosphate, dibasic dodecahydrate 0.48 mg/mL sodium phosphate, monobasic dihydrate
Polysorbate 80	Surfactant	<b>Heplisav-B</b>	HepB	0.1 mg/mL
Vitamins	Medium Nutrient	<b>Heplisav-B</b>	HepB	Amount not specified in package insert
Yeast	Medium Nutrient	<b>Heplisav-B</b>	HepB	Yeast protein: ≤5.0% of total protein (residual) Yeast DNA: <20 pg
Formaldehyde	Inactivating Agent	<b>Hiberix</b>	Hib	<0.5 mcg (residual)
Lactose	Stabilizer	<b>Hiberix</b>	Hib	12.6 mg
Salts, Mineral	Adjust tonicity	<b>Hiberix</b>	Hib	0.9% sodium chloride in diluent

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Aluminum Hydroxide	Adjuvant	<b>Infanrix</b>	DTaP	0.5 mg aluminum
Bovine Casein	Medium Nutrient	<b>Infanrix</b>	DTaP	Amount not specified in package insert
Bovine Extract	Stabilizer	<b>Infanrix</b>	DTaP	Amount not specified in package insert
Formaldehyde	Inactivating Agent	<b>Infanrix</b>	DTaP	≤100 mcg (residual)
Glutaraldehyde	Inactivating Agent	<b>Infanrix</b>	DTaP	Amount not specified in package insert
Polysorbate 80	Surfactant	<b>Infanrix</b>	DTaP	≤100 mcg (Tween 80)
Salts, Mineral	Adjust tonicity	<b>Infanrix</b>	DTaP	4.4 mg sodium chloride
Albumin, Bovine Serum	Stabilizer	<b>Kinrix</b>	DTaP+IPV	VERO cell culture growth
Aluminum Hydroxide	Adjuvant	<b>Kinrix</b>	DTaP+IPV	≤0.5 mg aluminum
Bovine Casein	Medium Nutrient	<b>Kinrix</b>	DTaP+IPV	Amount not specified in package insert
Bovine Extract	Stabilizer	<b>Kinrix</b>	DTaP+IPV	Amount not specified in package insert
Formaldehyde	Inactivating Agent	<b>Kinrix</b>	DTaP+IPV	≤100 mcg (residual)
Glutaraldehyde	Inactivating Agent	<b>Kinrix</b>	DTaP+IPV	Amount not specified in package insert
Lactalbumin Hydrolysate	Medium Nutrient	<b>Kinrix</b>	DTaP+IPV	Ingredient in growth medium
Neomycin	Antimicrobial	<b>Kinrix</b>	DTaP+IPV	≤0.05 ng
Polymyxin B	Antimicrobial	<b>Kinrix</b>	DTaP+IPV	≤0.01 ng
Polysorbate 80	Surfactant	<b>Kinrix</b>	DTaP+IPV	≤100 mcg (Tween 80)
Salts, Mineral	Adjust tonicity	<b>Kinrix</b>	DTaP+IPV	≤4.4 mg sodium chloride
Vero Cells	Growth Medium	<b>Kinrix</b>	DTaP+IPV	Amount not specified in package insert
Ammonium Sulfate	Protein Purifier	<b>Menactra</b>	Meningococcal ACYW-135	Ingredient in purification
Bovine Casein	Medium Nutrient	<b>Menactra</b>	Meningococcal ACYW-135	Amount not specified in package insert
Bovine, Casamino Acid	Stabilizer	<b>Menactra</b>	Meningococcal ACYW-135	Amount not specified in package insert
Formaldehyde	Inactivating Agent	<b>Menactra</b>	Meningococcal ACYW-135	<2.66 mcg
Phosphate Buffer	Buffer	<b>Menactra</b>	Meningococcal ACYW-135	Sodium phosphate buffered isotonic sodium chloride solution; amount not specified
Ammonium Sulfate	Protein Purifier	<b>MenQuadfi</b>	Meningococcal ACWY	Ingredient in purification
Formaldehyde	Inactivating Agent	<b>MenQuadfi</b>	Meningococcal ACWY	<3 mcg/mL
Phosphate Buffer	Buffer	<b>MenQuadfi</b>	Meningococcal ACWY	1.23mg sodium acetate
Salts, Mineral	Adjust tonicity	<b>MenQuadfi</b>	Meningococcal ACWY	3.35 mg sodium chloride
Amino Acid	Medium Nutrient	<b>Menveo</b>	Meningococcal ACYW-135	Amount not specified in package insert
Formaldehyde	Inactivating Agent	<b>Menveo</b>	Meningococcal ACYW-135	≤0.30 mcg
Yeast	Medium Nutrient	<b>Menveo</b>	Meningococcal ACYW-135	Amount not specified in package insert
Albumin, Bovine Serum	Stabilizer	<b>MMR-II</b>	MMR	<1 ppm
Albumin, Human	Diluent/Stabilizer	<b>MMR-II</b>	MMR	≤0.3 mg
Chick Embryo	Residual Medium	<b>MMR-II</b>	MMR	No intact cells (may have trace residual protein)
Gelatin, hydrolyzed	Stabilizer	<b>MMR-II</b>	MMR	14.5 mg
Neomycin	Antimicrobial	<b>MMR-II</b>	MMR	25 mcg
Sorbitol	Stabilizer, solvent	<b>MMR-II</b>	MMR	14.5 mg
Sucrose	Stabilizer	<b>MMR-II</b>	MMR	1.9 mg
1,2-distearoyl-sn-glycero 3-phosphocholine [DSPC]	Lipids	<b>mResvia</b>	RSV	<1.02 mg
Acetic Acid	Adjust pH	<b>mResvia</b>	RSV	0.021 mg
Cholesterol	Lipid	<b>mResvia</b>	RSV	<1.02 mg
Polyethylene Glycol 2000 dimyristoyl glycerol [PEG2000-DMG]	Lipids	<b>mResvia</b>	RSV	<1.02 mg
SM-102 (heptadecan-9-yl 8-((2-hydroxyethyl) (6-oxo-6-(undecyloxy) hexyl) amino) octanoate	Lipids	<b>mResvia</b>	RSV	<1.02 mg
Sodium Acetate Tryhydrate	Stabilizer	<b>mResvia</b>	RSV	0.10 mg
Sucrose	Stabilizer	<b>mResvia</b>	RSV	44 mg
Tromethamine	Stabilizer	<b>mResvia</b>	RSV	0.25 mg
Tromethamine Hydrochloride	Stabilizer	<b>mResvia</b>	RSV	1.2 mg
Baculovirus proteins	Residual Byproduct	<b>Novavax</b>	COVID-19	residual amounts
Cellular DNA	Residual Byproduct	<b>Novavax</b>	COVID-19	≤ 0.00016 mcg
Cholesterol	Lipid	<b>Novavax</b>	COVID-19	Amount not specified in package insert
Lentil Lectin	Residual Byproduct	<b>Novavax</b>	COVID-19	< 0.025 mcg
Matrix-M (Fraction A and Fraction C of saponin extracts)	Adjuvant	<b>Novovax</b>	Covid-19	50 mcg
Methyl-A-D-Mannopyranoside	Residual Byproduct	<b>Novavax</b>	COVID-19	2 mcg
Phosphate Buffer	Buffer	<b>Novavax</b>	COVID-19	14.7 mcg Disodium Hydrogen Phosphate Dihydrate

Excipient	Purpose	Vaccine Name	Vaccine Type	Amount per 0.5 mL Dose (unless otherwise noted)
				2.465 mg Disodium Hydrogen Phosphate Heptahydrate 3.85 mcg Potassium Dihydrogen Phosphate 0.445 mg Sodium Dihydrogen Phosphate Monohydrate
Phosphatidylcholine	Stabilizer	<b>Novavax</b>	COVID-19	Amount not specified in package insert
Pluronic F-68	Residual Byproduct	<b>Novavax</b>	COVID-19	< 2.19 mcg
Polysorbate 80	Surfactant	<b>Novavax</b>	COVID-19	0.050 mg
Potassium Chloride	Buffer	<b>Novavax</b>	COVID-19	2.25 mcg
Salts, Mineral	Adjust tonicity	<b>Novavax</b>	COVID-19	8.766 mg sodium chloride
Sf9 Cell Proteins	Residual byproduct	<b>Novavax</b>	COVID-19	≤ 0.96 mcg
Simethicone	Residual Byproduct	<b>Novavax</b>	COVID-19	< 0.92 mcg
Sodium Hydroxide or Hydrochloric Acid	Adjust pH	<b>Novavax</b>	COVID-19	Amount not specified in package insert
Tergitol (NP9)	Surfactant	<b>Novavax</b>	COVID-19	< 0.05 mcg
Triton X-100	Surfactant	<b>Novavax</b>	COVID-19	< 0.025 mcg
Albumin, Bovine Serum	Stabilizer	<b>Pediarix</b>	DTaP+HepB+IPV	VERO cell culture growth
Aluminum	Adjuvant	<b>Alumivax</b>	DTaP+HepB+IPV	≤0.7 mg
Bovine Casein	Medium Nutrient	<b>Pediarix</b>	DTaP+HepB+IPV	Amount not specified in package insert
Bovine Extract	Stabilizer	<b>Pediarix</b>	DTaP+HepB+IPV	Amount not specified in package insert
Formaldehyde	Inactivating Agent	<b>Pediarix</b>	DTaP+HepB+IPV	≤100 mcg (residual)
Glutaraldehyde	Inactivating Agent	<b>Pediarix</b>	DTaP+HepB+IPV	Amount not specified in package insert
Lactalbumin Hydrolysate	Medium Nutrient	<b>Pediarix</b>	DTaP+HepB+IPV	Ingredient in growth medium
Neomycin	Antimicrobial	<b>Pediarix</b>	DTaP+HepB+IPV	≤0.05 ng
Polymyxin B	Antimicrobial	<b>Pediarix</b>	DTaP+HepB+IPV	≤0.01 ng
Polysorbate 80	Surfactant	<b>Pediarix</b>	DTaP+HepB+IPV	≤100 mcg (Tween 80)
Salts, Mineral	Adjust tonicity	<b>Pediarix</b>	DTaP+HepB+IPV	4.4 mg sodium chloride
Vero Cells	Growth Medium	<b>Pediarix</b>	DTaP+HepB+IPV	Amount not specified in package insert
Yeast	Medium Nutrient	<b>Pediarix</b>	DTaP+HepB+IPV	≤5% yeast protein
Aluminum	Adjuvant	<b>PedvaxHIB</b>	Hib+HepB	225 mcg
Amino Acid	Medium Nutrient	<b>PedvaxHIB</b>	Hib+HepB	Amount not specified in package insert
Phenol	Preservative	<b>PedvaxHIB</b>	Hib+HepB	Ingredient in purification
Salts, Mineral	Adjust tonicity	<b>PedvaxHIB</b>	Hib+HepB	0.9% sodium chloride
Aluminum Phosphate	Adjuvant	<b>Penbraya</b>	Meningococcal ACYW-135	0.25 mg aluminum
Dextrose	Medium Nutrient	<b>Penbraya</b>	Meningococcal ACYW-135	Amount not specified in package insert
L-histidine	Medium Nutrient	<b>Penbraya</b>	Meningococcal ACYW-135	0.78 mg
Polysorbate 80	Surfactant	<b>Penbraya</b>	Meningococcal ACYW-135	0.018 mg at pH 6.0
Salts, Mineral	Adjust tonicity	<b>Penbraya</b>	Meningococcal ACYW-135	4.65 mg sodium chloride
Sucrose	Stabilizer	<b>Penbraya</b>	Meningococcal ACYW-135	28 mg
Trometamol	Stabilizer	<b>Penbraya</b>	Meningococcal ACYW-135	0.097 mg
Yeast	Medium Nutrient	<b>Penbraya</b>	Meningococcal ACYW-135	Amount not specified in package insert
2-Phenoxyethanol	Stabilizer	<b>Pentacel</b>	DTaP+IPV+Hib	3.3 mg (0.6 v/v) (not as a preservative)
Albumin, Bovine Serum	Stabilizer	<b>Pentacel</b>	DTaP+IPV+Hib	≤10 ng
Aluminum Phosphate	Adjuvant	<b>Pentacel</b>	DTaP+IPV+Hib	1.5 mg (0.33 mg aluminum)
Ammonium Sulfate	Protein Purifier	<b>Pentacel</b>	DTaP+IPV+Hib	Ingredient in purification
Bovine, Casamino Acid	Stabilizer	<b>Pentacel</b>	DTaP+IPV+Hib	Amount not specified in package insert
Dimethyl-beta-cyclodextrin	Medium Nutrient	<b>Pentacel</b>	DTaP+IPV+Hib	Ingredient in Stainer-Scholte medium
Formaldehyde	Inactivating Agent	<b>Pentacel</b>	DTaP+IPV+Hib	2-7 mcg (residual)
Glutaraldehyde	Inactivating Agent	<b>Pentacel</b>	DTaP+IPV+Hib	<50 ng (residual)
Neomycin	Antimicrobial	<b>Pentacel</b>	DTaP+IPV+Hib	<0.01 pg
Polymyxin B	Antimicrobial	<b>Pentacel</b>	DTaP+IPV+Hib	<0.000001 pg
Polysorbate 80	Surfactant	<b>Pentacel</b>	DTaP+IPV+Hib	<8.1 mcg
Sucrose	Stabilizer	<b>Pentacel</b>	DTaP+IPV+Hib	42.5 mg
Vero cells	Growth Medium	<b>Pentacel</b>	DTaP+IPV+Hib	Amount not specified in package insert
Phenol	Preservative	<b>Pneumovax 23</b>	Pneumococcal 23	Saline containing 0.25% phenol
Salts, Mineral	Adjust tonicity	<b>Pneumovax 23</b>	Pneumococcal 23	Ingredient in isotonic saline solution
Albumin, Bovine Serum	Stabilizer	<b>Prehevbrio</b>	HepB	<2.5 ng/mL
Aluminum Hydroxide	Adjuvant	<b>Prehevbrio</b>	HepB	0.5 mg/mL aluminum
Amino Acid	Medium Nutrient	<b>Prehevbrio</b>	HepB	Amount not specified in package insert
CHO cell proteins	Residual Medium	<b>Prehevbrio</b>	HepB	≤2.5 ng/mL
DNA, CHO cell	Residual Medium	<b>Prehevbrio</b>	HepB	≤10 pg/mL
Formaldehyde	Inactivating Agent	<b>Prehevbrio</b>	HepB	≤500 ng/mL



Excipient	Purpose	Vaccine Name	Vaccine Type	Amount per 0.5 mL Dose (unless otherwise noted)
Phosphate Buffer	Buffer	<b>Prehevbrio</b>	HepB	0.38 mg/dose disodium hydrogen phosphate dodecahydrate 0.02 mg/dose potassium dihydrogen phosphate anhydrous
Potassium Chloride	Buffer	<b>Prehevbrio</b>	HepB	0.02 mg/mL
Salts, Mineral	Adjust tonicity	<b>Prehevbrio</b>	HepB	8.45 mg/mL sodium chloride
Aluminum	Adjuvant	<b>Pevnar 13</b>	Pneumococcal 13	125 mcg
Ammonium Sulfate	Protein Purifier	<b>Pevnar 13</b>	Pneumococcal 13	Ingredient in purification
Bovine, Casamino Acid	Stabilizer	<b>Pevnar 13</b>	Pneumococcal 13	Amount not specified in package insert
Peptone, Soy	Medium Nutrient	<b>Pevnar 13</b>	Pneumococcal 13	Ingredient in growth medium
Polysorbate 80	Surfactant	<b>Pevnar 13</b>	Pneumococcal 13	100 mcg
Succinate Buffer	Stabilizer	<b>Pevnar 13</b>	Pneumococcal 13	295 mcg
Yeast	Medium Nutrient	<b>Pevnar 13</b>	Pneumococcal 13	Ingredient in growth medium
Aluminum	Adjuvant	<b>Pevnar 20</b>	Pneumococcal 20	125 mcg as aluminum phosphate
Bovine, Casamino Acid	Stabilizer	<b>Pevnar 20</b>	Pneumococcal 20	Amount not specified in package insert
Peptone, Soy	Medium Nutrient	<b>Pevnar 20</b>	Pneumococcal 20	Ingredient in growth medium
Polysorbate 80	Surfactant	<b>Pevnar 20</b>	Pneumococcal 20	100 mcg
Salts, Mineral	Adjust tonicity	<b>Pevnar 20</b>	Pneumococcal 20	4.4 mg sodium chloride
Succinate Buffer	Stabilizer	<b>Pevnar 20</b>	Pneumococcal 20	294 mcg
Yeast	Medium Nutrient	<b>Pevnar 20</b>	Pneumococcal 20	Ingredient in growth medium
Albumin, Bovine serum	Stabilizer	<b>Priorix</b>	MMR	≤50 mcg
Albumin, Egg (Ovalbumin)	Residual Medium	<b>Priorix</b>	MMR	≤60 mcg
Amino Acid	Medium Nutrient	<b>Priorix</b>	MMR	9 mg
Chick Embryo	Residual Medium	<b>Priorix</b>	MMR	Amount not specified in package insert
Lactose	Stabilizer	<b>Priorix</b>	MMR	32 mg anhydrous lactose
Mannitol	Stabilizer	<b>Priorix</b>	MMR	8 mg
MRC-5	Manufacturing Residue	<b>Priorix</b>	MMR	Amount not specified in package insert
Neomycin Sulfate	Antimicrobial	<b>Priorix</b>	MMR	≤25 mcg
Albumin, Bovine serum	Stabilizer	<b>ProQuad</b>	MMRV	≤0.5 mcg
Albumin, Human	Diluent/Stabilizer	<b>ProQuad</b>	MMRV	≤0.31 mg
Chick Embryo	Residual Medium	<b>ProQuad</b>	MMRV	No intact cells (may have trace residual protein)
DNA	Residual Medium	<b>ProQuad</b>	MMRV	Residual component of MRC-5 cells
Gelatin, hydrolyzed	Stabilizer	<b>ProQuad</b>	MMRV	11 mg
Monosodium L-glutamate	Stabilizer	<b>ProQuad</b>	MMRV	0.40 mg
MRC-5	Manufacturing Residue	<b>ProQuad</b>	MMRV	Residual
Neomycin	Antimicrobial	<b>ProQuad</b>	MMRV	<16 mcg
Phosphate Buffer	Buffer	<b>ProQuad</b>	MMRV	36 mcg potassium phosphate dibasic 72 mcg potassium phosphate monobasic 0.34 mg sodium phosphate dibasic
Potassium Chloride	Buffer	<b>ProQuad</b>	MMRV	60 mcg
Salts, Mineral	Adjust tonicity	<b>ProQuad</b>	MMRV	2.4 mg sodium chloride
Sodium Bicarbonate	Buffer	<b>ProQuad</b>	MMRV	0.17 mg
Sorbitol	Stabilizer, solvent	<b>ProQuad</b>	MMRV	1.8 mg
Sucrose	Stabilizer	<b>ProQuad</b>	MMRV	21 mg
2-Phenoxyethanol	Stabilizer	<b>Quadracel</b>	DTaP+IPV	3.3 mg (0.6 v/v) (not as a preservative)
Albumin, Bovine Serum	Stabilizer	<b>Quadracel</b>	DTaP+IPV	≤50 ng
Aluminum Phosphate	Adjuvant	<b>Quadracel</b>	DTaP+IPV	1.5 mg (0.33 mg aluminum)
Ammonium Sulfate	Protein Purifier	<b>Quadracel</b>	DTaP+IPV	Ingredient in purification
Bovine, Casamino Acid	Stabilizer	<b>Quadracel</b>	DTaP+IPV	Amount not specified in package insert
Formaldehyde	Inactivating Agent	<b>Quadracel</b>	DTaP+IPV	≤5 mcg
Glutaraldehyde	Inactivating Agent	<b>Quadracel</b>	DTaP+IPV	<50 ng
MRC-5	Manufacturing Residue	<b>Quadracel</b>	DTaP+IPV	Ingredient in growth medium
Neomycin	Antimicrobial	<b>Quadracel</b>	DTaP+IPV	<4 pg
Polymyxin B Sulfate	Antimicrobial	<b>Quadracel</b>	DTaP+IPV	<4 pg
Polysorbate 80	Surfactant	<b>Quadracel</b>	DTaP+IPV	10 ppm
Aluminum	Adjuvant	<b>Recombivax HB</b>	HepB	0.5 mg/mL
Amino Acid	Medium Nutrient	<b>Recombivax HB</b>	HepB	In fermentation medium
Amino Acid	Medium Nutrient	<b>Recombivax HB</b>	HepB	Amount not specified in package insert
Dextrose	Medium Nutrient	<b>Recombivax HB</b>	HepB	Ingredient in fermentation medium
Formaldehyde	Inactivating Agent	<b>Recombivax HB</b>	HepB	<15 mcg/mL (residual)
Peptone, Soy	Medium Nutrient	<b>Recombivax HB</b>	HepB	Ingredient in fermentation medium
Potassium Aluminum Sulfate	Adjuvant	<b>Recombivax HB</b>	HepB	Amount not specified in package insert
Salts, Mineral	Adjust tonicity	<b>Recombivax HB</b>	HepB	Ingredient in fermentation medium
Yeast	Medium Nutrient	<b>Recombivax HB</b>	HepB	<1% yeast protein
Amino Acid	Medium Nutrient	<b>Rotarix</b>	Rotavirus	Amount not specified in package insert
Calcium Carbonate	Buffer	<b>Rotarix</b>	Rotavirus	Ingredient in diluent - Amount not specified in package insert
Calcium Chloride	Medium Nutrient	<b>Rotarix</b>	Rotavirus	Amount not specified in package insert
Dextran	Stabilizer	<b>Rotarix</b>	Rotavirus	Amount not specified in package insert
D-glucose	Medium Nutrient	<b>Rotarix</b>	Rotavirus	In DMEM (Dulbecco's Modified Eagle Medium)

Excipient	Purpose	Vaccine Name	Vaccine Type	Amount per 0.5 mL Dose (unless otherwise noted)
Ferric (III) Nitrate	Medium Nutrient	<b>Rotarix</b>	Rotavirus	In DMEM (Dulbecco's Modified Eagle Medium)
L-cystine	Medium Nutrient	<b>Rotarix</b>	Rotavirus	Amount not specified in package insert
L-tyrosine	Medium Nutrient	<b>Rotarix</b>	Rotavirus	Amount not specified in package insert
Magnesium Sulfate	Medium Nutrient	<b>Rotarix</b>	Rotavirus	Amount not specified in package insert
Phosphate Buffer	Buffer	<b>Rotarix</b>	Rotavirus	Sodium phosphate in DMEM (medium)
Porcine DNA	Residual Medium	<b>Rotarix</b>	Rotavirus	PCV-1
Potassium Chloride	Medium Nutrient	<b>Rotarix</b>	Rotavirus	Ingredient in DMEM medium
Salts, Mineral	Adjust tonicity	<b>Rotarix</b>	Rotavirus	In DMEM (Dulbecco's Modified Eagle Medium)
Sodium Pyruvate	Medium Nutrient	<b>Rotarix</b>	Rotavirus	in DMEM (medium)
Sorbitol	Stabilizer, solvent	<b>Rotarix</b>	Rotavirus	Amount not specified in package insert
Sucrose	Stabilizer	<b>Rotarix</b>	Rotavirus	Amount not specified in package insert
Vero Cells	Growth Medium	<b>Rotarix</b>	Rotavirus	Amount not specified in package insert
Vitamins	Medium Nutrient	<b>Rotarix</b>	Rotavirus	Amount not specified in package insert
Xanthan	Thickening agent	<b>Rotarix</b>	Rotavirus	Ingredient in diluent
Albumin, Bovine Serum	Stabilizer	<b>RotaTaq</b>	Rotavirus	Trace amounts
DNA	Residual Medium	<b>RotaTaq</b>	Rotavirus	Residual component of manufacturing process
Phosphate Buffer	Buffer	<b>RotaTaq</b>	Rotavirus	Sodium phosphate monobasic monohydrate
Polysorbate 80	Surfactant	<b>RotaTaq</b>	Rotavirus	Amount not specified in package insert
Sodium Citrate	Adjust pH	<b>RotaTaq</b>	Rotavirus	Amount not specified in package insert
Sodium Hydroxide	Adjust pH	<b>RotaTaq</b>	Rotavirus	Amount not specified in package insert
Sucrose	Stabilizer	<b>RotaTaq</b>	Rotavirus	Amount not specified in package insert
Vero Cells	Growth Medium	<b>RotaTaq</b>	Rotavirus	Amount not specified in package insert
Amino Acid	Medium Nutrient	<b>Shingrix</b>	Zoster	Ingredient in growth medium
AS01B	Adjuvant	<b>Shingrix</b>	Zoster	Amount not specified in package insert
Cholesterol	Lipid	<b>Shingrix</b>	Zoster	0.25 mg
DNA	Residual Medium	<b>Shingrix</b>	Zoster	≤2.1 pg
DOPC	Lipid in AS01	<b>Shingrix</b>	Zoster	1 mg
Host cell Proteins	Residual Medium	<b>Shingrix</b>	Zoster	≤3.0%
Phosphate Buffer	Buffer	<b>Shingrix</b>	Zoster	0.54 mg potassium dihydrogen phosphate 0.160 mg sodium dihydrogen phosphate dihydrate 0.15 mg disodium phosphate anhydrous 0.116 mg dipotassium phosphate
Polysorbate 80	Surfactant	<b>Shingrix</b>	Zoster	0.08 mg
Salts, Mineral	Adjust tonicity	<b>Shingrix</b>	Zoster	4.385 mg sodium chloride
Sucrose	Stabilizer	<b>Shingrix</b>	Zoster	20 mg
1,2-distearoyl-sn-glycero-3-phosphocholine [DSPC])	Lipid	<b>Spikevax (Moderna)</b>	COVID-19	Amount not specified in package insert
Acetic Acid	Adjust pH	<b>Spikevax (Moderna)</b>	COVID-19	0.021 mg
Cholesterol	Lipid	<b>Spikevax (Moderna)</b>	COVID-19	Amount not specified in package insert
Phosphate Buffer	Buffer	<b>Spikevax (Moderna)</b>	COVID-19	0.10 mg sodium acetate
Polyethylene Glycol	Lipid	<b>Spikevax (Moderna)</b>	COVID-19	1.01 mg (SM-102, polyethylene glycol [PEG] 2000 dimyristoyl glycerol [DMG])
Sucrose	Stabilizer	<b>Spikevax (Moderna)</b>	COVID-19	43.5 mg
Tromethamine	Stabilizer	<b>Spikevax (Moderna)</b>	COVID-19	0.31 mg
Tromethamine Hydrochloride	Stabilizer	<b>Spikevax (Moderna)</b>	COVID-19	1.2 mg
Aluminum	Adjuvant	<b>TDVax</b>	Tetanus+Diphtheria	≤0.53mg
Ammonium Sulfate	Protein Purifier	<b>TDVax</b>	Tetanus+Diphtheria	Ingredient in purification
Bovine Extract	Stabilizer	<b>TDVax</b>	Tetanus+Diphtheria	Amount not specified in package insert
Formaldehyde	Inactivating Agent	<b>TDVax</b>	Tetanus+Diphtheria	<100 mcg
Thimerosal	Manufacturing Residue	<b>TDVax</b>	Tetanus+Diphtheria	≤0.3 mcg mercury (trace amounts)
Aluminum	Adjuvant	<b>Tenivac</b>	Tetanus+Diphtheria	0.33 mg
Ammonium Sulfate	Protein Purifier	<b>Tenivac</b>	Tetanus+Diphtheria	Ingredient in purification
Bovine, Casamino Acid	Stabilizer	<b>Tenivac</b>	Tetanus+Diphtheria	Amount not specified in package insert
Formaldehyde	Inactivating Agent	<b>Tenivac</b>	Tetanus+Diphtheria	≤5.0 mcg
Salts, Mineral	Adjust tonicity	<b>Tenivac</b>	Tetanus+Diphtheria	Sodium chloride – Amount not specified in package insert
Aluminum	Adjuvant	<b>Trumenba</b>	Meningococcal B	0.25 mg
Histidine	Medium Nutrient	<b>Trumenba</b>	Meningococcal B	10 mM
Polysorbate 80	Surfactant	<b>Trumenba</b>	Meningococcal B	0.018 mg
Aluminum Phosphate and Aluminum Hydroxide	Adjuvant	<b>Twinrix</b>	HepA+HepB	0.45 mg/mL aluminum
Amino Acid	Medium Nutrient	<b>Twinrix</b>	HepA+HepB	Amount not specified in package insert
Formaldehyde	Inactivating Agent	<b>Twinrix</b>	HepA+HepB	≤0.1 mg/mL formalin
MRC-5	Manufacturing Residue	<b>Twinrix</b>	HepA+HepB	≤2.5 mcg/mL

Excipient	Purpose	Vaccine Name	Vaccine Type	Amount per 0.5 mL Dose (unless otherwise noted)
Neomycin Sulfate	Antimicrobial	<b>Twinrix</b>	HepA+HepB	≤20 ng/mL
Phosphate Buffer	Buffer	<b>Twinrix</b>	HepA+HepB	Amount not specified in package insert
Polysorbate 20	Surfactant	<b>Twinrix</b>	HepA+HepB	Amount not specified in package insert
Salts, Inorganic	Medium Nutrient	<b>Twinrix</b>	HepA+HepB	Sodium chloride – Amount not specified in package insert
Salts, Mineral	Adjust tonicity	<b>Twinrix</b>	HepA+HepB	Aluminum salts – Amount not specified in package insert
Yeast	Medium Nutrient	<b>Twinrix</b>	HepA+HepB	≤5% yeast protein
Albumin, Bovine	Stabilizer	<b>Vaqta</b>	HepA	<10 <sup>-4</sup> mcg
Aluminum	Adjuvant	<b>Vaqta</b>	HepA	0.45 mg/mL as amorphous aluminum hydroxyphosphate sulfate
DNA	Residual Medium	<b>Vaqta</b>	HepA	<4 x 10 <sup>-6</sup> mcg
Formaldehyde	Inactivating Agent	<b>Vaqta</b>	HepA	<0.8 mcg
MRC-5	Manufacturing Residue	<b>Vaqta</b>	HepA	Amount not specified in package insert
Neomycin	Antimicrobial	<b>Vaqta</b>	HepA	<10 ppb (residual)
Salts, Mineral	Adjust tonicity	<b>Vaqta</b>	HepA	0.9% sodium chloride
Sodium Borate	Stabilizer	<b>Vaqta</b>	HepA	70 mcg/mL
Albumin, Bovine Serum	Stabilizer	<b>Varivax</b>	Varicella	Trace amounts
DNA	Residual Medium	<b>Varivax</b>	Varicella	Residual component of MRC-5 cells
Ethylenediaminetetraacetic acid (EDTA)	Preservative	<b>Varivax</b>	Varicella	Trace amounts
Gelatin, hydrolyzed	Stabilizer	<b>Varivax</b>	Varicella	12.5 mg
Monosodium L-glutamate	Stabilizer	<b>Varivax</b>	Varicella	0.5 mg
MRC-5	Manufacturing Residue	<b>Varivax</b>	Varicella	Residual component
Neomycin	Antimicrobial	<b>Varivax</b>	Varicella	Trace amounts
Phosphate Buffer	Buffer	<b>Varivax</b>	Varicella	0.08 mg potassium phosphate monobasic 0.45 mg sodium phosphate dibasic Sodium phosphate monobasic, trace amounts
Potassium Chloride	Buffer	<b>Varivax</b>	Varicella	0.08 mg
Salts, Mineral	Adjust tonicity	<b>Varivax</b>	Varicella	3.2 mg Sodium Chloride
Sucrose	Stabilizer	<b>Varivax</b>	Varicella	25 mg
Albumin, Bovine Serum	Stabilizer	<b>Vaxelis</b>	DTaP+IPV+Hib+HepB	≤50 ng
Aluminum	Adjuvant	<b>Vaxelis</b>	DTaP+IPV+Hib+HepB	319 mcg aluminum from aluminum salts
Amino Acid	Medium Nutrient	<b>Vaxelis</b>	DTaP+IPV+Hib+HepB	Amount not specified in package insert
Ammonium Sulfate	Protein Purifier	<b>Vaxelis</b>	DTaP+IPV+Hib+HepB	Ingredient in purification
Ammonium Thiocyanate	Manufacturing residue	<b>Vaxelis</b>	DTaP+IPV+Hib+HepB	≤0.125 mcg
Amorphous Aluminum Hydroxyphosphate Sulfate (AAHS)	Adjuvant	<b>Vaxelis</b>	DTaP+IPV+Hib+HepB	Amount not specified in package insert
Formaldehyde	Inactivating Agent	<b>Vaxelis</b>	DTaP+IPV+Hib+HepB	≤14 mcg
Glutaraldehyde	Inactivating Agent	<b>Vaxelis</b>	DTaP+IPV+Hib+HepB	50 ng
Neomycin	Antimicrobial	<b>Vaxelis</b>	DTaP+IPV+Hib+HepB	<5 ng
Polymyxin B Sulfate	Antimicrobial	<b>Vaxelis</b>	DTaP+IPV+Hib+HepB	<25 ng
Polysorbate 80	Surfactant	<b>Vaxelis</b>	DTaP+IPV+Hib+HepB	<0.0056%
Streptomycin sulfate	Manufacturing Residue	<b>Vaxelis</b>	DTaP+IPV+Hib+HepB	<200 ng
Yeast	Medium Nutrient	<b>Vaxelis</b>	DTaP+IPV+Hib+HepB	≤0.1 mcg
Aluminum	Adjuvant	<b>Vaxneuvance</b>	Pneumococcal 15	125 mcg aluminum as aluminum phosphate adjuvant
Dextrose	Medium Nutrient	<b>Vaxneuvance</b>	Pneumococcal 15	Amount not specified in package insert
L-histidine	Medium Nutrient	<b>Vaxneuvance</b>	Pneumococcal 15	1.55 mg
Peptone, Soy	Medium Nutrient	<b>Vaxneuvance</b>	Pneumococcal 15	Amount not specified in package insert
Polysorbate 20	Surfactant	<b>Vaxneuvance</b>	Pneumococcal 15	1 mg
Salts, Mineral	Adjust tonicity	<b>Vaxneuvance</b>	Pneumococcal 15	4.50 mg sodium chloride
Yeast	Medium Nutrient	<b>Vaxneuvance</b>	Pneumococcal 15	Amount not specified in package insert
Albumin, Bovine	Stabilizer	<b>Zostavax</b>	Varicella Zoster	Trace amounts
DNA	Residual Medium	<b>Zostavax</b>	Varicella Zoster	Residual
Gelatin, Porcine, Hydrolyzed	Stabilizer	<b>Zostavax</b>	Varicella Zoster	15.58 mg/0.65 mL dose
Monosodium L-glutamate	Stabilizer	<b>Zostavax</b>	Varicella Zoster	0.62 mg/0.65 mL dose
MRC-5	Manufacturing Residue	<b>Zostavax</b>	Varicella Zoster	Residual
Neomycin	Antimicrobial	<b>Zostavax</b>	Varicella Zoster	Trace amounts
Phosphate Buffer	Buffer	<b>Zostavax</b>	Varicella Zoster	0.10 mg/0.65 mL dose potassium phosphate monobasic 0.57 mg/0.65 mL dose sodium phosphate monobasic
Potassium Chloride	Buffer	<b>Zostavax</b>	Varicella Zoster	0.10 mg/0.65 mL dose
Salts, Mineral	Adjust tonicity	<b>Zostavax</b>	Varicella Zoster	3.99 mg/0.65 mL dose sodium chloride
Sucrose	Stabilizer	<b>Zostavax</b>	Varicella Zoster	31.16 mg/0.65 mL dose

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

This table was last updated on December 20, 2024 | © 2024 Institute for Vaccine Safety