

Vaccine Contents (solvents, adjuvants, preservatives, allergens, and excipients) (see NOTE)

Vaccine ==>	Anthrax	BCG	DTaP*	DT*	Td*	HepA*	HepB*	Hib*	Influenza*	Lyme	JE
Constituent											
2-phenoxyethanol			X			X				X	
Agar											
Alum+	X		X	X	X	X	X	X		X	
Amino acids						X					
Ammonium sulfate								X			
Amphotericin B											
Ascorbic acid											
Bactopeptone											
Beta-probiolactone									X		
Benzethonium chloride	X										
Bovine albumin/serum						X					
Brilliant green											
Chlortetracycline											
Disodium phosphate							X				
DNA						X					
EDTA											
Egg protein									X		
Formaldehyde/formalin	X		X	X	X	X		X	X		X
Fetuin			X								
Gelatin			X						X		X
Gentamicin									X		
Glycerine											
Glycine			X	X	X						
Glycol p-isooctylphenyl									X		
Human serum albumin											
Hydrochloric acid				X	X						
Kanamycin										X	
Lactose		X						X			
Magnesium stearate											
Monosodium glutamate											
Monosodium phosphate											
Mouse protein											X
MRC-5 cellular protein						X					
Neomycin									X		
Phenol											
Phenol red											
Polydimethylsiloxane											
Polymyxin B									X		
Polysorbate 20						X					
Polysorbate 80			X						X		
Potassium glutamate											
Potassium phosphate											
Silicon										X	
Sodium acetate				X	X						
Sodium bisulfite									X		
Sodium borate						X					
Sodium chloride**	X	X	X	X	X	X	X	X	X	X	
Sodium dihydrogen phosph							X				

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Constituent											
Sodium hydroxide				X	X						
Sodium phosphate				X							
Sorbitol											
Streptomycin									X		
Sucrose								X			
Thimerosal			X	X	X		X	X	X		X
Tri(n)butylphosphate									X		
Triton N101									X		
Veal protein											
Yeast protein							X				

Vaccine Contents (solvents, adjuvants, preservatives, allergens, and excipients) (see NOTE)

Vaccine ==>	MMR++	Mening	Pneumo*	Polio (oral)	Polio (parenteral)	Rabies*	Typhoid (oral)	Typhoid* (parenteral)	Vaccinia	Varicella	YF
Constituent											
2-phenoxyethanol					X						
Agar								X			
Alum+						X					
Amino acids							X				
Ammonium sulfate											
Amphotericin B						X					
Ascorbic acid							X				
Bactopeptone								X			
Beta-propiolactone											
Benzethonium chloride											
Bovine albumin/serum				X		X			X	X	
Brilliant green									X		
Chlortetracycline						X			X		
Disodium phosphate								X			
DNA											
EDTA						X				X	
Egg protein	X					X					X
Formaldehyde/formalin					X						
Fetuin											
Gelatin	X					X	X			X	X
Gentamicin											
Glycerine									X		
Glycyl p-isooctylphenyl											
Human serum albumin						X					
Hydrochloric acid											
Kanamycin											
Lactose		X					X				
Magnesium stearate							X				
Monosodium glutamate										X	
Monosodium phosphate								X			
Mouse protein											
MRC-5 cellular protein											
Neomycin	X			X	X	X			X		
Phenol			X					X	X		

Vaccine Contents (solvents, adjuvants, preservatives, allergens, and excipients) (see NOTE)

Vaccine ==>	MMR++	Mening	Pneumo*	Polio (oral)	Polio (parental)	Rabies*	Typhoid (oral)	Typhoid* (parental)	Vaccinia	Varicella	YF
Phenol red				X		X					
Polydimethylsiloxane								X			
Polymyxin B					X				X		
Polysorbate 20											
Polysorbate 80											
Potassium glutamate						X					
Potassium phosphate										X	
Silicon											
Sodium acetate											
Sodium bisulfite											
Sodium borate											
Sodium chloride**			X		X	X		X		X	X
Sodium dihydrogen phosph											
Sodium hydroxide											
Sodium phosphate										X	
Sorbitol	X			X							X
Streptomycin				X	X				X		
Sucrose							X			X	
Thimerosal		X	X			X					
Tri(n)butylphosphate											
Triton N101											
Veal protein								X			
Yeast protein											

Sources: Manufacturer's package inserts. Grabenstein in JD. Immunofacts: Vaccines & Immunologic Drugs. St. Louis: Facts & Comparisons, 1999.

NOTE: Some contents listed are used in manufacturing but may be undetectable in the final product.

*Multiple brands. Specified contents may not be present in all brands. See package insert for specific contents.

+Aluminum hydroxide, aluminum potassium sulfate or aluminum phosphate.

**Generally used as a solvent with or without phosphate buffer.

++MMR or component vaccines

Vaccine Culture Media

Vaccine ==>	Anthrax	BCG	DTaP*	DT*	Td*	HepA*	HepB*	Hib*	Influenza*	Lyme	JE
Media***											
Bovine protein											
Calf skin											
Chick embryo fibroblast TC											
Chicken embryo (egg)									X		
Cohen-Wheeler			X								
E. coli										X	
Human diploid TC (MRC-5)						X					
Human diploid TC (WI-38)											
Lathman			X								
Linggoud-Fenton			X								
Monkey kidney TC											
Monkey kidney TC (Vero)											
Mouse brain											X
Rhesus diploid TC											
Stainer-Scholte			X								
Synthetic/semisynthetic+++	X	X		X	X			X			
Veal infusion											
Yeast or yeast extract							X	X			

Vaccine ==>	MMR++	Mening	Pneumo*	Polio (oral)	Polio (parental)	Rabies*	Typhoid (oral)	Typhoid* (parental)	Vaccinia	Varicella	YF
Media***											
Bovine protein			X				X				
Calf skin									X		
Chick embryo fibroblast TC	X										
Chicken embryo (egg)											X
Cohen-Wheeler											
E. coli											
Human diploid TC (MRC-5)						X				X	
Human diploid TC (WI-38)	X										
Lathman											
Linggoud-Fentbn											
Monkey kidney TC				X							
Monkey kidney TC (Vero)					X						
Mouse brain											
Rhesus diploid TC						X					
Stainer-Scholte											
Synthetic/semisynthetic+++		X						X			
Veal infusion								X			
Yeast or yeast extract											

Sources: Manufacturer's package inserts. Grabenstein JD. Immunofacts: Vaccines & Immunologic Drugs. St. Louis: Facts & Comparisons, 1999.

***Culture media used to grow organism. May be present in very small quantity. TC = tissue culture

+++ Generally amino acids, nutrients, casein