

# VACCINE INGREDIENTS ...AND THEIR CHEMICAL PROFILES

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Web Site: <http://www.qualityassurance.synthasite.com>

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## VACCINE INGREDIENTS

Source: 1997 Physicians' Desk Reference

Toll Free Numbers can be called to obtain product inserts.

This is a representative, not a comprehensive, list of the various types of vaccines.

Acel-Immune

DTaP

Diphtheria and Tetanus Toxoids and Acellular Pertussis Vaccine Adsorbed

Lederle Laboratories

1-800-934-5556

produced using formaldehyde, thimerosal, aluminum hydroxide, aluminum phosphate, polysorbate 80, gelatin (animal parts/bovine)

Act HIB

Haemophilus Influenzae Type B (Hib) Tetanus Toxoid Conjugate

Connaught Laboratories

1-800-822-2463

produced using ammonium sulfate, formalin, sucrose, thimerosal  
medium: semi-synthetic

Attenuvax

Measles Virus Vaccine Live

Merck & Co, Inc.

1-800-672-6372

produced using neomycin, sorbitol, hydrolized gelatin  
medium: chick embryo

DPT

Diphtheria and Tetanus Toxoids and Pertussis Vaccine Adsorbed

SmithKline Beecham Pharmaceuticals

1-800-366-8900 ext. 5231

produced using aluminum phosphate, formaldehyde, ammonium sulfate, washed sheep red blood cells, glycerol, sodium chloride, thimerosal

medium: porcine (pig) pancreatic hydrolysate of casein

Energix-B

Hepatitis B

SmithKline Beecham Pharmaceuticals

1-800-633-8900 ext. 5231

produced using aluminum hydroxide, thimerosal

medium: yeast (possibly 5% residual)

Havrix

Hepatitis A

SmithKline Beecham Pharmaceuticals

1-800-633-8900 ext. 5231

produced using formalin, aluminum hydroxide, phenoxyethanol (antifreeze), polysorbate 20, residual MRC5 proteins (from medium)

medium: human diploid cells (originating from human aborted fetal tissue)

Biavax

Rubella and Mumps Virus Vaccine Live

Merck & Co, Inc.

1-800-672-6372

produced using neomycin, sorbitol, hydrolyzed gelatin

medium: human diploid cells (originating from human aborted fetal tissue)

HibTiter

Haemophilus Influenzae Type B (Hib)

Lederle Laboratories

1-800-934-5556

produced using polyribosylribitol, ammonium sulfate, thimerosal

medium: chemically defined, yeast based

Fluvirin

Influenza Virus Vaccine

Medeva Pharmaceuticals

1-888-MEDEVA

(716)274-5300

produced using embryonic fluid (chicken egg), neomycin, polymyxin, thimerosal,

betapropiolactone  
medium: embryonic fluid (chicken egg)

FluShield  
Influenza Virus Vaccine, Trivalent, Types A&B  
Wyeth-Ayerst  
1-800-934-5556  
produced using gentamicin sulfate, formaldehyde, polysorbate 80, tri(n)butylphosphate,  
thimerosal  
medium: chick embryos

IPOL  
Inactivated Polio Vaccine  
Connaught Laboratories  
1-800-822-2463  
produced using 3 types of polio virus, formaldehyde, phenoxyethanol (antifreeze), neomycin,  
streptomycin, polymyxin B  
medium: VERO cells, a continuous line of monkey kidney cells

MMR  
Measles Mumps Rubella Live Virus Vaccine  
Merck & Co., Inc.  
1-800-672-6372 produced using sorbitol, neomycin, hydrolyzed gelatin  
mediums: M&M - chick embryo  
Rubella - human diploid cells (originating from human aborted fetal tissue)

M-R-Vax  
Measles and Rubella Virus Vaccine Live  
Merck & Co., Inc.  
1-800-672-6372  
produced using neomycin, sorbitol, hydrolyzed gelatin  
mediums: M - chick embryo  
R - human diploid cells (originating from human aborted fetal tissue)

Menomune  
Meningococcal Polysaccharide Vaccine  
Connaught Laboratories  
1-800-822-2463  
produced using thimerosal, lactose  
medium: freeze dried polysaccharride antigens from Neisseria Meningitidis

Meruvax II  
Rubella Virus Vaccine Live  
Merck & Co., Inc.  
1-800-672-6372  
produced using neomycin, sorbitol, hydrolyzed gelatin  
medium: human diploid cells (originating from human aborted fetal tissue)

Mumpsvox  
Mumps Virus Vaccine Live  
Merck & Co., Inc.  
1-800-672-6372  
produced using neomycin, sorbitol, hydrolyzed gelatin  
medium: human diploid cells (originating from human aborted fetal tissue)

Orimune  
Poliovirus Vaccine Live Oral Trivalent  
Lederle Laboratories  
1-800-934-5556  
produced using 3 types of attenuated polioviruses, streptomycin, neomycin, calf serum, sorbitol  
medium: monkey kidney cell culture

Pneumovax  
Pneumococcal Vaccine Polyvalent  
Merck & Co., Inc.  
1-800-672-6372  
produced using phenol and capsular polysaccharides from the 23 most prevalent pneumococcal types

Imovax  
Rabies Vaccine Adsorbed  
Connaught Laboratories  
1-800-822-2463  
produced using human albumin, neomycin sulfate, phenol red indicator  
medium: human diploid cells (originating from human aborted fetal tissue)

Rabies Vaccine Adsorbed  
SmithKline Beecham Pharmaceuticals  
1-800-366-8900 ext. 5231  
produced using betapropiolactone, aluminum phosphate, sodium ethylmercurithiosalicylate

(thimerosal), phenol red  
medium: fetal rhesus monkey lung cells

Recombivax  
Hepatitis B Vaccine Recombinant  
Merck & Co., Inc.  
1-800-672-6372  
produced using thimerosal, aluminum hydroxide  
medium: yeast (residual < 1% yeast protein)

RotaShield  
Rotavirus Vaccine, Live, Oral, Tetravalent  
Wyeth-Ayerst Laboratories  
1-800-934-5556  
produced using 1 rhesus monkey rotavirus, 3 rhesus-human reassortant viruses, sucrose, monosodium glutamate (MSG), potassium monophosphate, potassium diphosphate, fetal bovine serum, neomycin sulfate, amphotericin B  
medium: fetal rhesus diploid cell line

Varivax  
Varicella Virus Vaccine Live  
Merck & Co., Inc.  
1-800-672-6372  
produced using sucrose, phosphate, glutamate, processed gelatin  
medium: human diploid cells (originating from human aborted fetal tissue)

## Chemical Profiles and Definitions

visit <http://www.scorecard.org> to investigate chemical profiles  
Sources: EDF (Environmental Defense Fund) & MME (Mosby's Medical Encyclopedia)

Ammonium Sulfate: EDF Suspected - gastrointestinal or liver toxicant, neurotoxicant, respiratory toxicant

Amphotericin B: MME definition - "a drug used to treat fungus infections. Known allergy to this drug prohibits use. Side effects include blood clots, blood defects, kidney problems, nausea and fever. When used on the skin, allergic reactions can occur."

Aluminum: EDF Suspected - cardiovascular, or blood toxicant, **neurotoxicant**, respiratory toxicant.

More hazardous than most chemicals in 2 out of 6 ranking systems.  
On at least 2 federal regulatory lists.

Beta-Propiolactone: EDF Recognized - carcinogen  
EDF Suspected - gastrointestinal or liver toxicant; respiratory toxicant; skin or sense organ toxicant.

More hazardous than most chemicals in 3 out of 3 ranking systems.  
On at least 5 federal regulatory lists ranked as one of the most hazardous compounds (worst 10%) to humans.

Formaldehyde: EDF Recognized - carcinogen  
Suspected - gastrointestinal or liver toxicant; immunotoxicant, neurotoxicant, reproductive toxicant; respiratory toxicant; skin or sense organ toxicant.  
More hazardous than most chemicals in 5 out of 12 ranking systems.  
On at least 8 federal regulatory lists ranked as one of the most hazardous compounds (worst 10%) to ecosystems and human health.

Gentamicin Sulfate: an antibiotic

Hydrolyzed Gelatin: obtained from selected pieces of calf and cattle skins, de-mineralized cattle bones (ossein) and porkskin.

Neomycin: an antibiotic

Phenol : EDF Suspected - cardiovascular or blood toxicant aka Carboic Acid - developmental toxicant, gastrointestinal or liver toxicant kidney toxicant, neurotoxicant respiratory toxicant, skin or sense organ toxicant.

More hazardous than most chemicals in 3 out of 10 ranking systems.  
On at least 8 federal regulatory lists.

Phenoxyethanol: EDF Suspected - developmental toxicant, reproductive toxicant (aka: Antifreeze).

Less hazardous than most chemicals in 3 ranking systems.

Polyribosylribitol: a component of the Hib bacterium

Polymyxin: an antibiotic

Polysorbate: EDF Suspected - skin or sense organ toxicant

Sorbitol: EDF Suspected - gastrointestinal or liver toxicant.  
Less hazardous than most chemicals in 1 ranking system.

Streptomycin: an antibiotic

Sucrose: refined sugar

Thimerosal: EDF Recognized - developmental toxicant. Suspected - skin or sense organ toxicant.

Tri(n)butylphosphate: EDF Suspected - kidney toxicant neurotoxicant.

More hazardous than most chemicals in 2 out of 3 ranking systems.

On at least 1 federal regulatory list.

*"We have a duty to look after each other. If we lose control of our government, then we lose our ability to dispense justice and human kindness. Our first priority today, then, is to defeat utterly those forces of greed and corruption that have come between us and our self-governance."*