

Egg Content of Vaccines

| Vaccine | Grown in | Egg protein content | Approach in egg-allergic patient |
|---|---------------------------------------|------------------------|---|
| Measles and mumps | chick embryo fibroblast cell cultures | picograms to nanograms | Administer in usual manner 44-46 |
| Purified chick embryo rabies | chick embryo fibroblast cell cultures | picograms to nanograms | Administer in usual manner 109 |
| Influenza (killed injected and live attenuated nasal) | chick extra-embryonic allantoic fluid | micrograms | Skin test with egg and vaccine prior to administration 48, 110 |
| Yellow fever | chick embryos | micrograms | Skin test with egg and vaccine prior to administration 67 |

Adapted from : Kelso, J. and J. Li, *Adverse reaction to vaccines*. *Annals of Allergy, Asthma, & Immunology*, 2009. **103**(4 Supplement 2): p. 14.