

Shake test

DPT, DT, dT, TT
These vaccines are damaged by freezing

- *Shake test should be performed on a sample of vaccine vial in question and on the sample of the same batch/manufacture which is known to have been frozen.*

- *The two vials should be shaken vigorously for few minutes, and observed for the rate of sedimentation*

	NEVER FROZEN	FROZEN/ THAWED
IMMEDIATELY AFTER SHAKING	 <p>Smooth and cloudy</p>	 <p>Not smooth, granular particles</p>
30 MINUTES AFTER SHAKING	 <p>Starting to clear No sediment</p>	 <p>Almost clear Thick sediment</p>
	USE VACCINE	DO NOT USE VACCINE

Hepatitis B vaccine

- ❑ Hepatitis B vaccine is the first vaccine to be developed against a form of cancer (liver cancer)
- ❑ More than 2 billion people alive today have at some time in their lives been infected with hepatitis B virus (HBV).
- ❑ Of these, about 350 million remain chronically infected carriers - a ticking time bomb that can transmit the disease for many years before going on to develop cirrhosis of the liver or liver cancer.
- ❑ Every year there are about 4 million acute clinical cases of hepatitis B and about a million deaths.
- ❑ Primary liver cancer caused by hepatitis B is now one of the principal causes of cancer death in many parts of Africa, Asia, and the Pacific Basin.