**Claims**

1. A method of purifying poliovirus from a crude cell culture harvest , said method comprising the steps of:
a) adding a detergent to the crude cell culture harvest;
b) clarifying said poliovirus-containing cell culture harvest to obtain a clarified harvest with poliovirus particles.

2. A method of enhancing poliovirus release from a crude cell culture harvest, said method comprising the steps of:
a) adding a detergent to the crude cell culture harvest;
b) clarifying said poliovirus-containing cell culture harvest to obtain a clarified harvest with poliovirus particles.

3. A method of purifying poliovirus from a cell culture, said method comprising the steps of:
a) adding a detergent to the cell culture;
b) clarifying said poliovirus-containing cell culture to obtain a clarified harvest with poliovirus particles; and
c) subjecting the clarified harvest obtained in step b) to a capture step to obtain a poliovirus-containing suspension.

4. A method of purifying poliovirus from a cell culture according to claim 3, wherein said capture step is a cationic exchange chromatography step.

5. A method of purifying poliovirus from a cell culture according to claim 3 or 4, wherein the poliovirus obtained in step c) is further separated from the poliovirus-containing suspension by size exclusion.

6. A method of purifying poliovirus from a cell culture according to claim 5, wherein said size exclusion is performed by size exclusion chromatography.

7. A method of purifying poliovirus from a cell culture, said method comprising the steps of:
a) adding a detergent to the cell culture;

b) clarifying said poliovirus-containing cell culture to obtain a clarified harvest with poliovirus particles;

c) subjecting the clarified harvest obtained in step b) to a cationic exchange chromatography step to obtain a poliovirus-containing suspension;

d) further purifying separating the poliovirus from the poliovirus-containing suspension by size exclusion chromatography.

8. A method according to any one of claims 1-7, wherein said detergent is selected from the group of cationic detergents, anionic detergents, non-ionic detergents and zwitterionic detergents.

9. A method according to claim 8, wherein said detergent is a cationic detergent.

10. A method according to claim 9, wherein said cationic detergent is selected from the group of Hexadecyltrimethylammonium bromide (CTAB), Hexadecylpyridinium chloride (CPC), Benzethonium chloride (BTC) and domiphen bromide (DB).

11. A method according to claim 10, wherein the cationic detergent is domiphen bromide (DB).

12. A method according to claim 8, wherein said detergent is an anionic detergent.

13. A method according to claim 12, wherein said anionic detergent is selected from the group of Sodium taurodeoxycholate hydrate (STH), Sodium dodecyl sulfate (SDS).

14. A method according to claim 8, wherein the detergent is a non-ionic detergent.

15. A method according to claim 14, wherein said non-ionic detergent is selected from the group of 4-(1,1,3,3-Tetramethylbutyl)phenyl-polyethylene glycol (Triton® X-100) and Decyl-β-D-1-thiomaltopyranoside (DTP).

16. A method according to claim 8, wherein the detergent is a zwitterionic detergent.

17. A method according to claim 16, wherein said zwitterionic detergent is selected from the group of 3-(N,N-Dimethylmyristylammonio) propanesulfonate (SB3-14), 3-[(3-Cholamidopropyl)dimethylammonio]-1-propanesulfonate (CHAPS).

18. Use of a detergent for enhancing the release of poliovirus from a crude cell culture harvest, wherein the detergent is directly added on to the crude cell culture harvest.