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**Charge, size distribution and hydrophobicity of viruses:
Effect of propagation and purification methods**

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by

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Highlights

- Growth on double agar overlay introduces impurities that persist through multiple filtration steps
- Hydrophobicity measurements are highly sensitive to residual impurities
- Soft particle model is congruent with trends in electrophoretic mobility and isoelectric point
- Virus propagation and purification methods are ranked according to practical criteria

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