



Title	Automated Gel Permeation Chromatography (GPC)
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Reference	Technology Review Report, 21/08. http://medicaldev.moh.gov.my/uploads/gpc.pdf

Aim

To determine the safety, efficacy, and effectiveness of automated gel permeation chromatography (GPC) for sample cleanup process.

Conclusions and results

No evidence was retrievable on the effectiveness and cost effectiveness of automated GPC as regards clinical sample preparation or sample clean up. No technology assessment report addressed this technology.

Recommendations

GPC needs to be validated and tested before considering its use for sample preparation or sample clean up for clinical samples.

Methods

Electronic databases searched for relevant articles included: PubMed, Ovid search engine, MEDLINE, CINAHL, and Cochrane database of systematic reviews, HTA Databases, Horizon scanning databases (CADTH, ASERNIP-S, Defra, Euroscan), FDA website, and Google search engine.

The search strategy used the following terms either alone or in combination: gel permeation chromatography, accuracy, precision, efficacy, sample clean up, and sample preparation. Relevant literature was critically appraised, and evidence was graded according to US/Canadian Preventive Services Task Force (Appendix 1).

Further research/reviews required

Clinical research is warranted for this device before it can be recommended for use.