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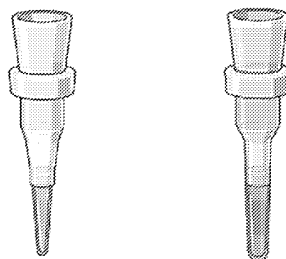
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(54) **Title:** REUSABLE CARTRIDGES FOR DETECTING ANALYTES IN SOLUTION



| Characteristic                     | Value (ug) |
|------------------------------------|------------|
| Capacity, Antibody (Small)         | 132        |
| Capacity, Antibody (Large)         | 421        |
| Capacity, Complex (Large)          | 73         |
| MHC-I in 250M GRANTA               | 36         |
| Required MCH-I capacity/cartridge* | 5          |

\*Given 250 cells are currently lysed in 6.7mL and max cartridge volume is currently 1mL

**Fig. 1B**

(57) **Abstract:** This disclosure relates to methods of preparing re-usable and dry-able cartridges comprising matrices comprising a detection molecule such as an antibody, for detection or enrichment of an analyte in a sample, such as an antigen recognized by an antibody. In some embodiments, the cartridge comprises a tube or well that holds the matrix. In some embodiments, the matrix or associated cartridges may be stored wet or dry. The disclosure also relates to the cartridges and methods of their use.

[Continued on next page]

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