

Title (en)

TAGGED MICROPARTICLE COMPOSITIONS AND METHODS

Title (de)

MIKROPARTIKELZUSAMMENSETZUNGEN MIT TAG UND VERFAHREN

Title (fr)

COMPOSITIONS DE MICROPARTICULES MARQUEES ET PROCEDES ASSOCIES

Publication

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Application

EP 02778794 A 20021108

Priority

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Abstract (en)

[origin: WO03042699A1] Compositions and methods are disclosed for detecting multiple target analytes in a sample using microparticles having molecular tags attached by cleavable linkages. Generally, an assay mixture is formed comprising a sample and a reagent comprising multiple such microparticles under conditions that permit stable complexes to form between binding moieties on the surfaces of the microparticles and the analytes. In one aspect of the invention, the a second binding composition is added so that complexes form among the microparticle-bound binding moieties, the analytes, and second binding moieties of the second binding composition. Such second binding moieties have cleavage-inducing moieties attached that upon activation cause the cleavage of the cleavable linkages and the release of molecular tags. Released molecular tags are separated and the presence and/or amount of the target analytes are determined based on the analysis of the released and separated molecular tags.

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Citation (search report)

- [E] WO 02094998 A2 20021128 - ACLARA BIOSCIENCES INC [US], et al
- [E] WO 02095356 A2 20021128 - ACLARA BIOSCIENCES INC [US], et al
- [PX] US 2002090616 A1 20020711 - SINGH SHARAT [US], et al
- [A] WO 9942838 A1 19990826 - DADE BEHRING INC [US]
- [X] OHLMEYER M H J ET AL: "COMPLEX SYNTHETIC CHEMICAL LIBRARIES INDEXED WITH MOLECULAR TAGS", PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE, WASHINGTON, DC, US, vol. 90, 1 December 1993 (1993-12-01), pages 10922 - 10926, XP000652270, ISSN: 0027-8424
- See references of WO 03042699A1

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