

1 *Supplementary Materials*

2 **Advantages of highly spherical gold nanoparticles as**
3 **labels for lateral flow immunoassay**

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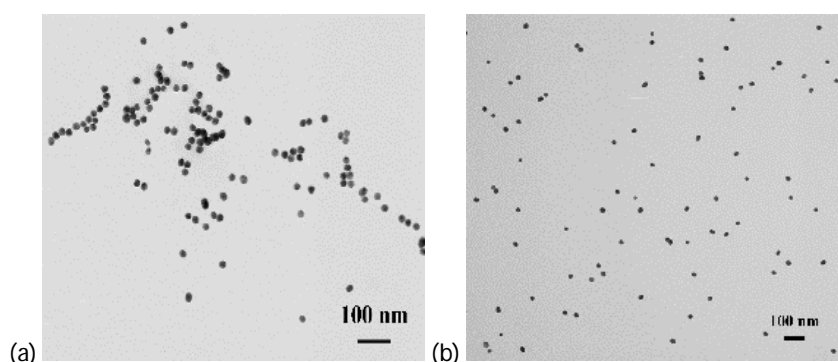
10 ³ *Saratov State University, 410012 Saratov, Russia*

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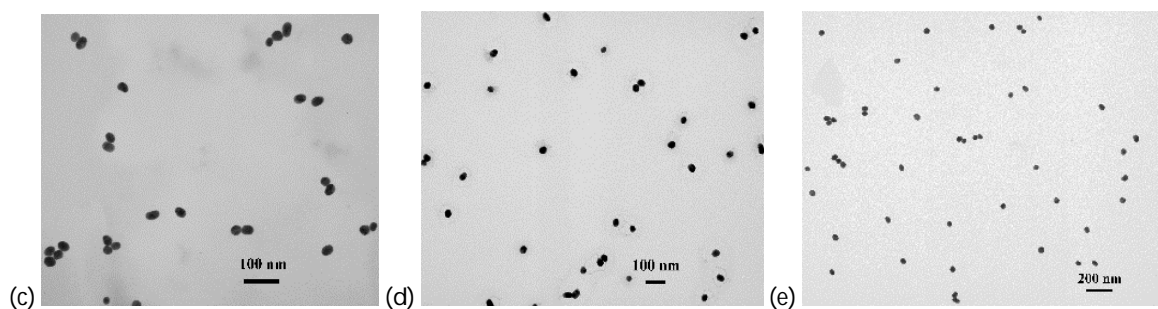
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13 8452-97-0403

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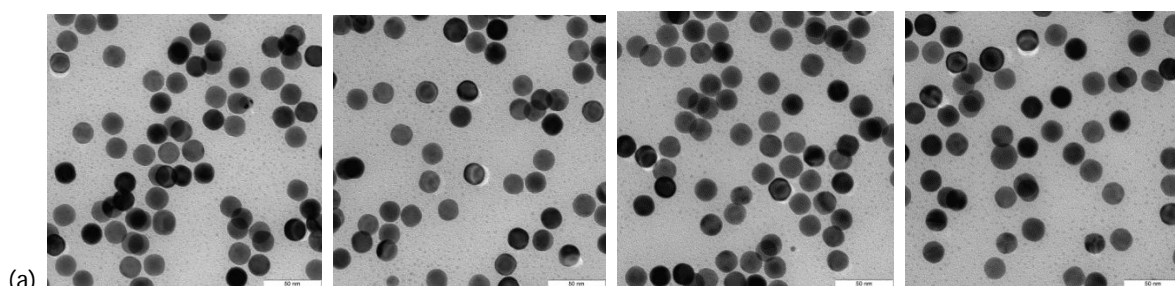


17 Fig. S1. TEM images of C-GNPs, preparations 1–5 (a–e, respectively).

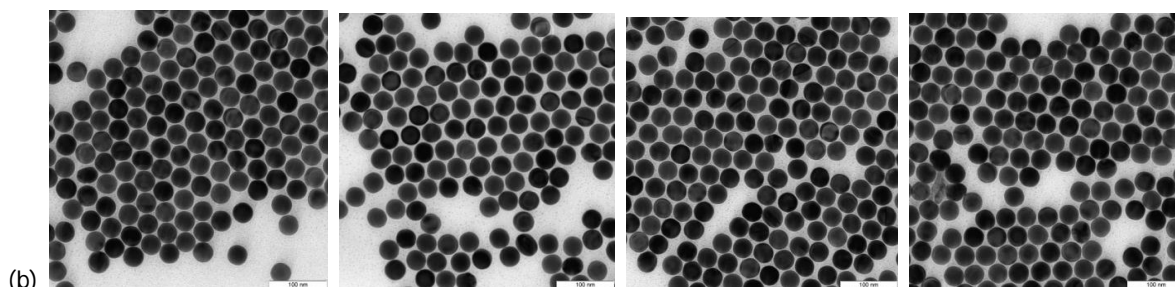
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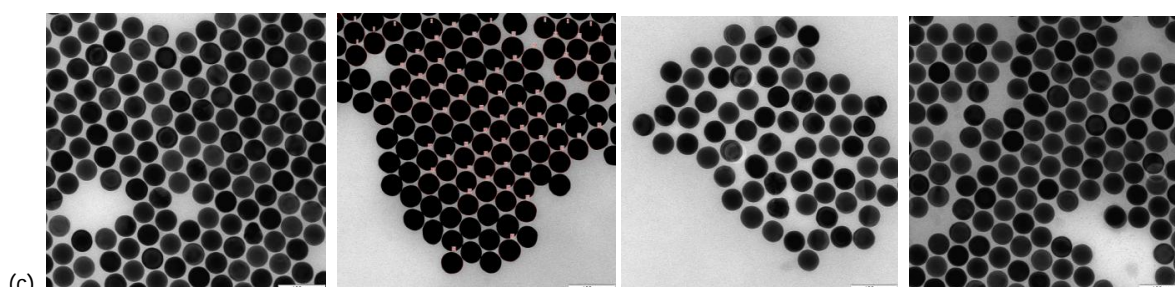
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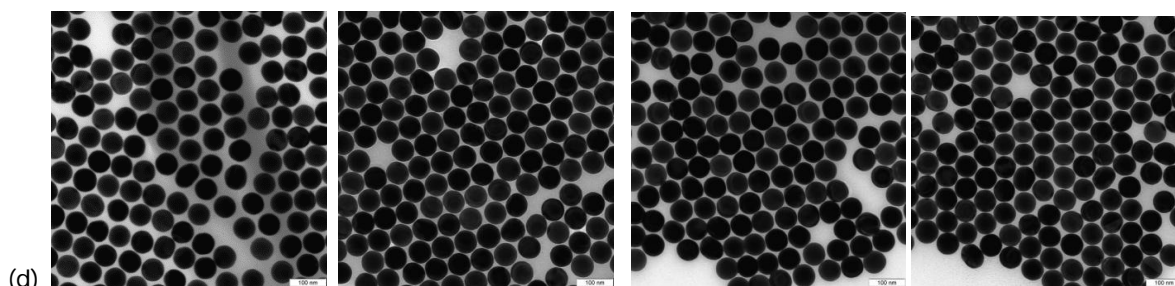
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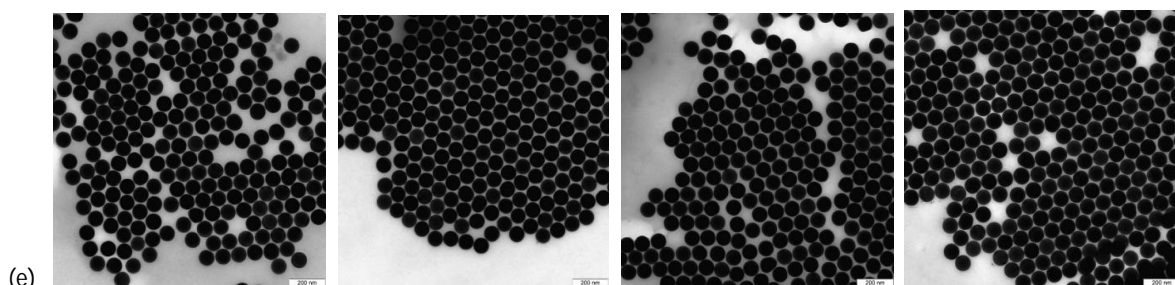
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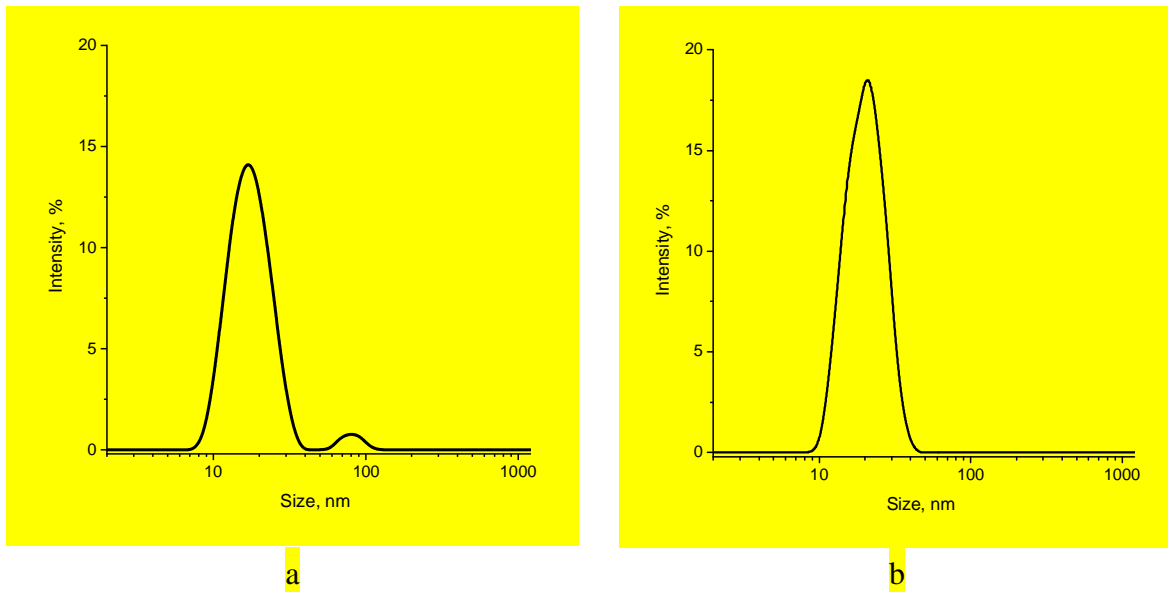


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25 Fig. S2. TEM images of S-GNPs, preparations 1–5 (a–e, respectively).

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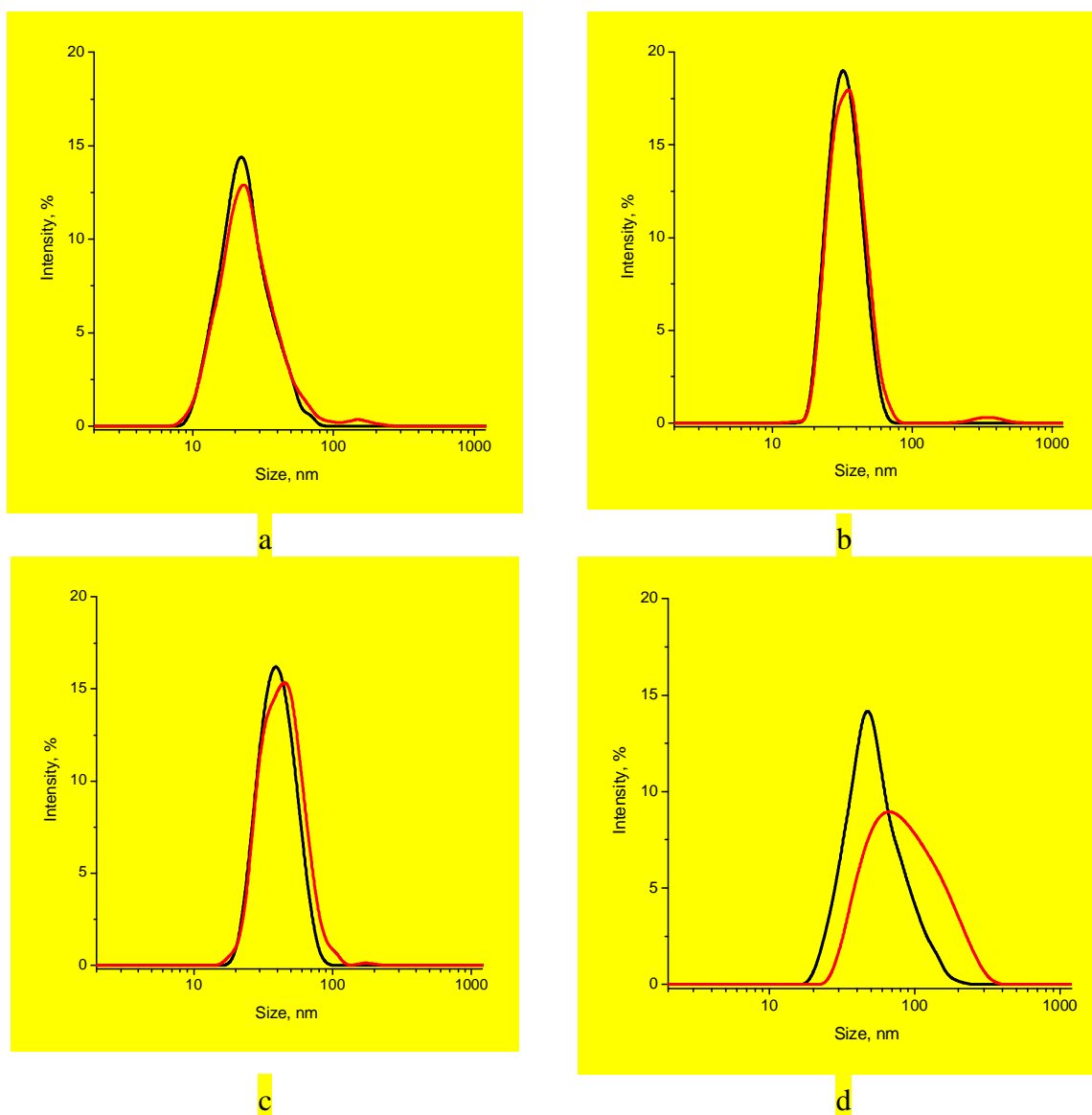
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Fig. S3. Examples of DLS measurements for C-GNPs (a, diameter 18.6 nm) and S-GNPs (b, diameter 20.2 nm) preparations

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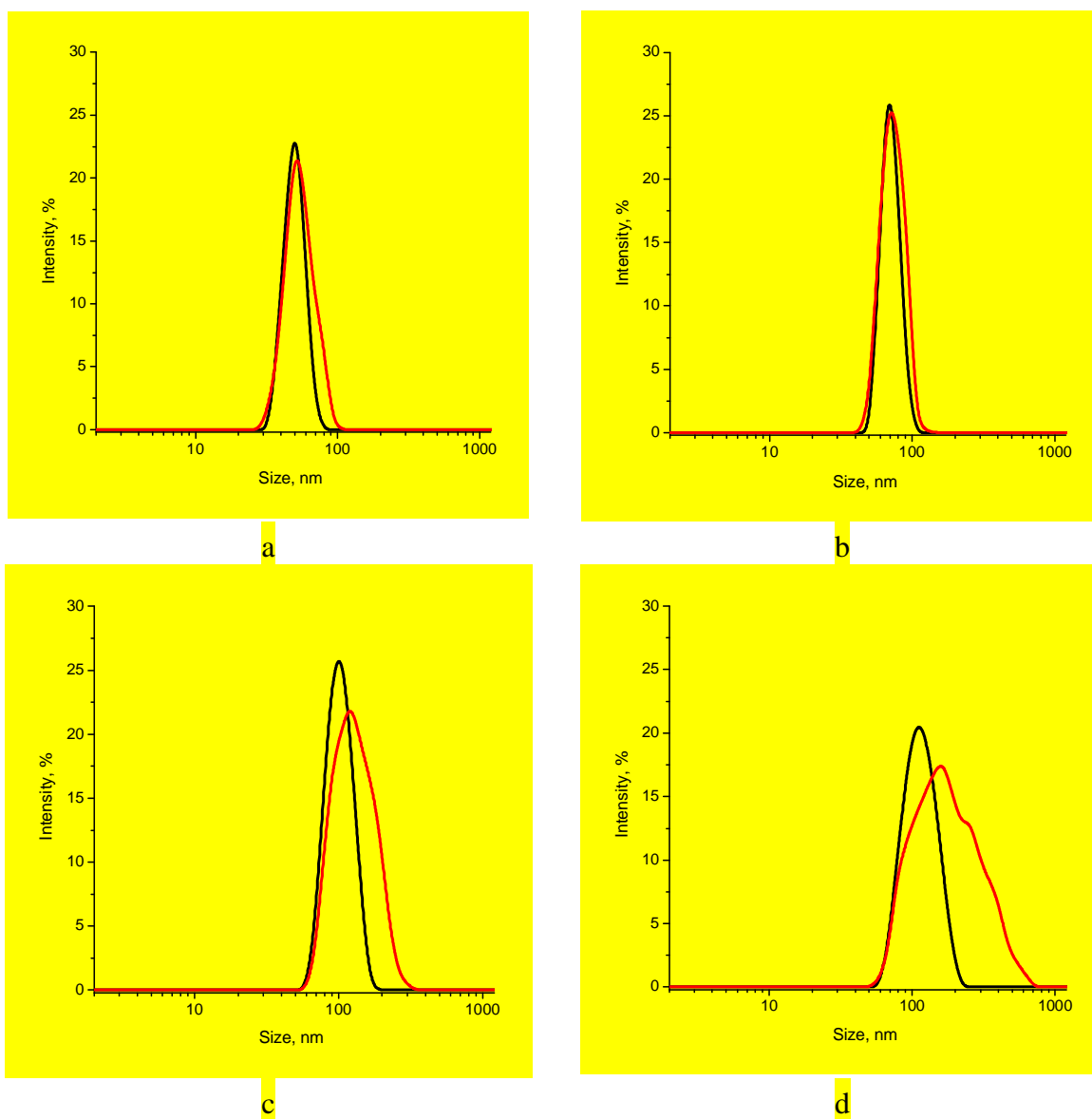


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33 Fig. S4. Diameters distributions of C-GNPs-antibodies conjugates (data of DLS measurements) for with an
34 average diameters of 21.5 (a), 33.7 (b), 39.5 (c) and 47.5 (d) nm. The black curves correspond to the freshly
35 prepared conjugates; the red curves were obtained after 2 months of storage at 4 °C.

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39 Fig. S5. Diameters distributions of S-GNPs-antibodies conjugates (data of DLS measurements) for with an

40 average diameters of 48.7 (a), 64.5 (b), 90.4 (c) and 115.3 (d) nm. The black curves correspond to the freshly

41 prepared conjugates; the red curves were obtained after 2 months of storage at 4 °C.

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