

WHY TANAKA

- Decades of experience and proven quality
- Proprietary gold nanoparticle production
 - Arrangements of a surface shape
 - Strict control of particle size
 - Chemical modification on surface
- Tailored to individual specifications



TANAKA'S RDT ADVANTAGES

- Immunochromatographic Rapid Test
- High sensitivity/specificity
- No cross-reactivity
 - Both a strip housing cassette type and a dipping type are available
- Results in 10 mins
(5min-kit available in Japanese market)



APPLICATIONS FOR NEW POCT

- Respiratory infectious diseases
- Skin infectious diseases
- Infectious diseases by mosquito-borne virus/maternofetal transmission
- Adult diseases
- Home medical care
- Detection of toxic substances in water or foods



STATE OF THE ART POCT TECHNOLOGY

- Immobilization protein, nucleic acid or glucose on the gold nanoparticle surface
- Suppression of non-specific reaction
- Screening technology for the antibodies



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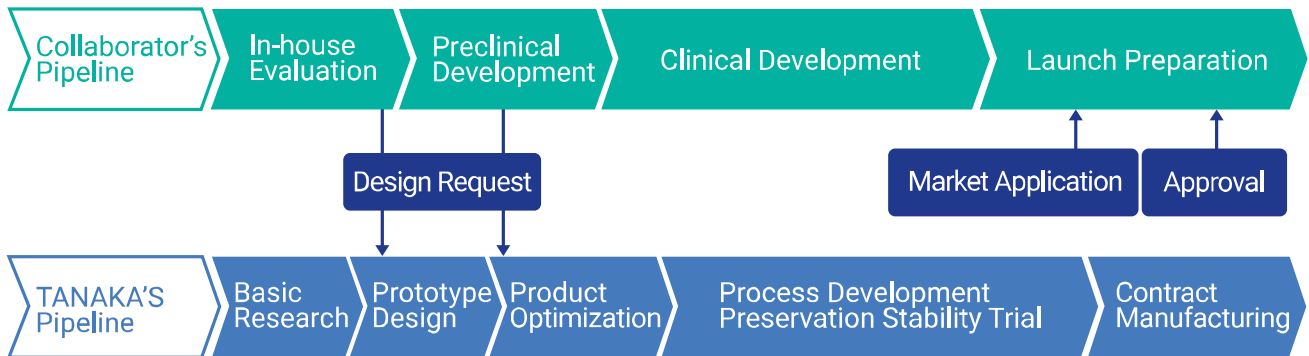
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TANAKA Precious Metals is a Japanese leading precious metals manufacturer with a 135-year history. Through our own proprietary processes, we have been able to produce gold nanoparticles that enable diagnostics and biosensors to be manufactured, which we supply using a high-quality management system.

TANAKA BUSINESS MODEL

Proposal-type Contract Manufacturing of RDT Kit



ADVANTAGE TO COLLABORATOR



Rapid feasibility study



Reduce the risk of development



Accelerate the time from design to market



TANAKA'S RIDT

- Immunochromatographic Rapid Test
- High sensitivity/specificity
- No cross reactivity
- A strip housing Cassette type
- Results in 10 mins

(*5min-kit also has been introduced to Japanese market)



TANAKA'S ADVANTAGES IN RIDTS

Gold nanoparticles production technologies

- Arrangements of a surface morphology
- Strict control of particle size
- Chemical graftization availability

APPLICATIONS AIMS FOR NEW POCT

- Respiratory diseases
- Skin diseases
- Infectious diseases
- Life style related diseases
- Home medical care
- Detection for toxic substance in water or foods

PRODUCTION TECHNOLOGY OF POCT

- Graft protein or nucleic acid or glucose onto the gold nano particle surface
- Avoiding organic impurity adsorption onto gold nanoparticles
- Screening technology of the antibody

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