

Colloidal Lignin Particles for Biomaterial Applications



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Anti-oxidative

Anti-microbial

Smooth

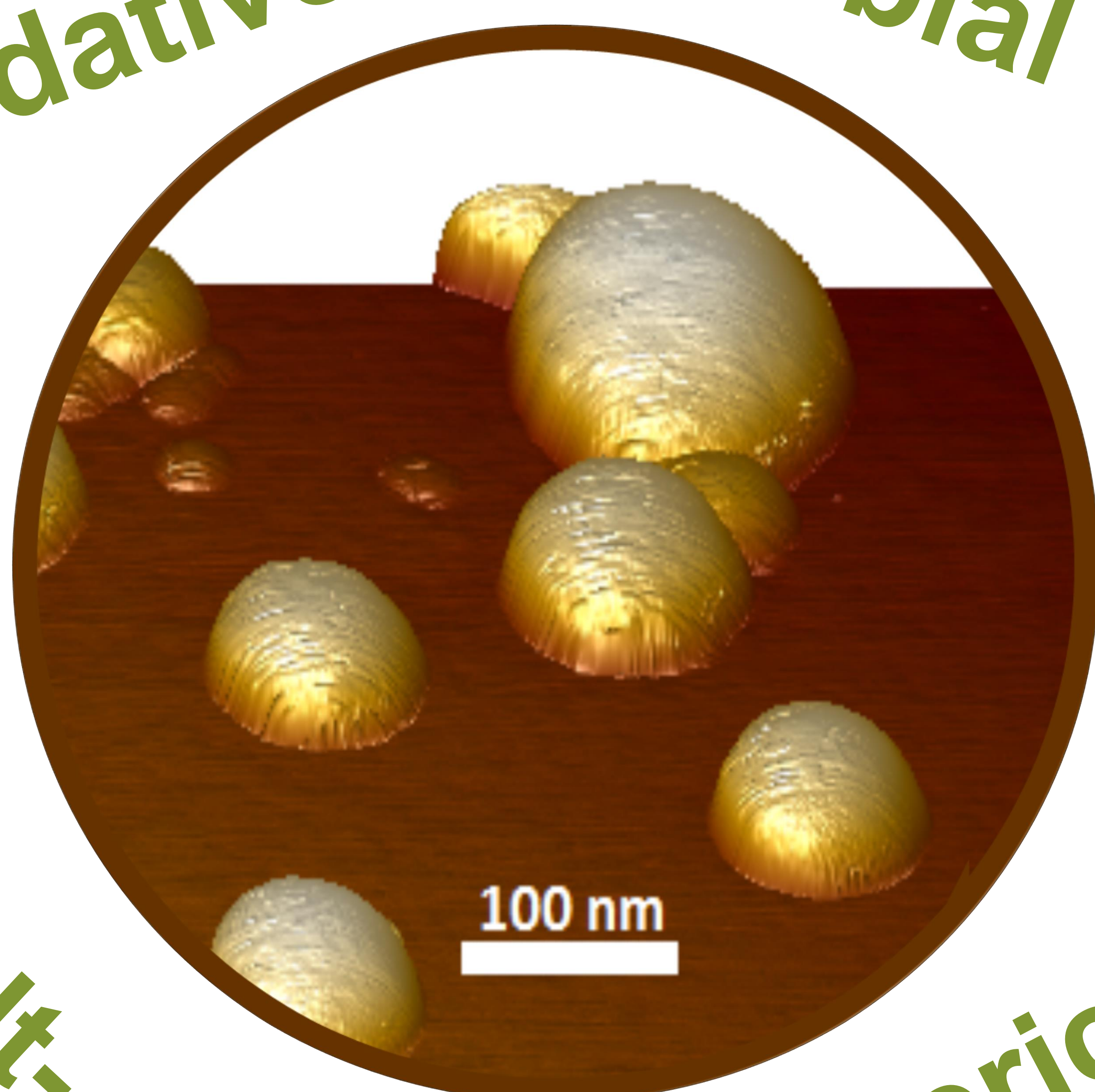
pH-stable

Spherical

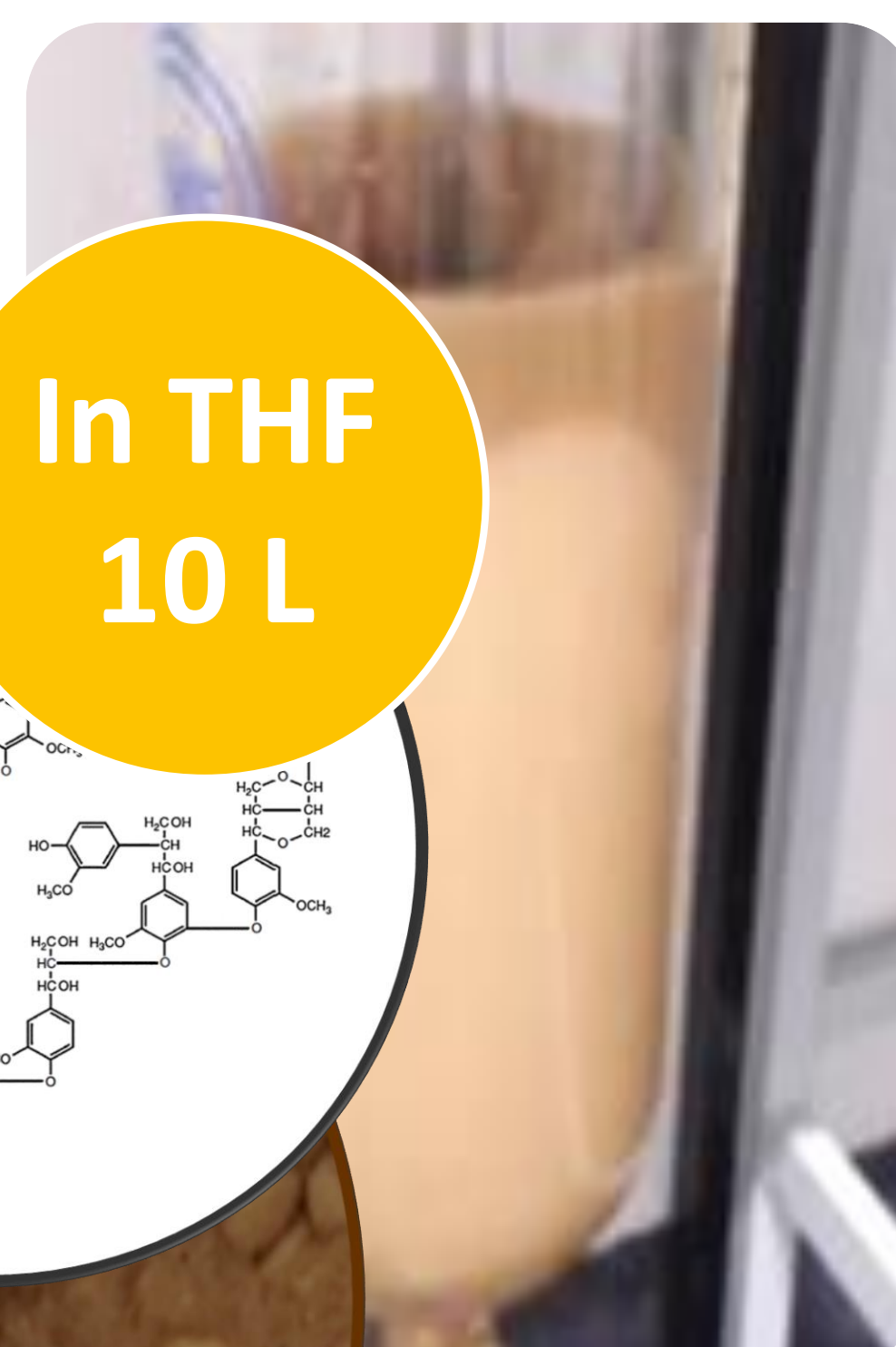
Soft

Salt-stable

Light



In THF
10 L



Solvent recovery

Dried CLPs



Dispersion in H₂O



A!

Tekes

Biorefinery lignins