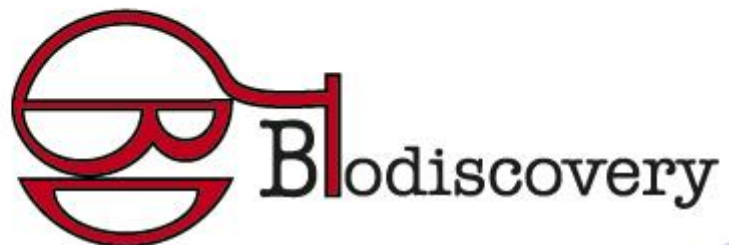




TBD-BIODISCOVERY Ltd

CONTRACT DEVELOPMENT AND MANUFACTURING
ORGANIZATION IN THE BALTIC STATES

2020

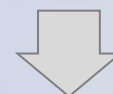


TBD-Biodiscovery TODAY

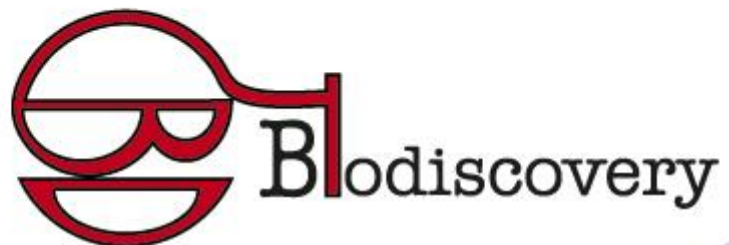
TBD-Biodiscovery is an innovative **Estonian** company, founded in 2006 by private capital and contributing to modern healthcare and biotech industry.



Develops, manufactures and sells **active pharmaceutical ingredients** (APIs). We provide our clients with the full spectra of chemistry-related services necessary for production/registration of API.



We are focused on low volume/high added value products, which means that we can work with both **niche generics** and **innovative NCEs**.



TBD-Biodiscovery SERVICES



Contract Development



Synthesis development



Process engineering



Analytical testing/development



Scale-up



Validation



Lifecycle management

CORE Expertise in organic chemistry

Total synthesis (20-30 steps) of natural products

Complex carbohydrate chemistry

Polycyclic compounds

Organometallics including Grignard

Impurities of APIs

Cytotoxics (HPAPI)

Metal-catalyzed and transfer hydrogenation

Peptide couplings

Bioluminescent dyes

Metal-mediated reactions

TBD-Biodiscovery SERVICES



Contract manufacturing



Focused on active pharmaceutical ingredients (**API**)
custom manufacturing



Synthesis of high-potency APIs (**HPAPI**), cytotoxic
and non-cytotoxic



Preparation of **excipients**



Advanced **intermediates**

TBD-Biodiscovery SERVICES



Regulatory and compliance



Full ASMF compilation and support



GMP compliance certificate since 2008



In 2018 the management system of the company has been certified according to the standard ISO 9001:2015

GMP-CERTIFIED MANUFACTURING

**COMMERCIAL
BATCHES**

**CLINICAL BATCHES
(IMP)**

**PRE-
FORMULATIONS
FOR CLINICAL
STUDIES**

EXCIPIENTS

RESULTS OF 2019

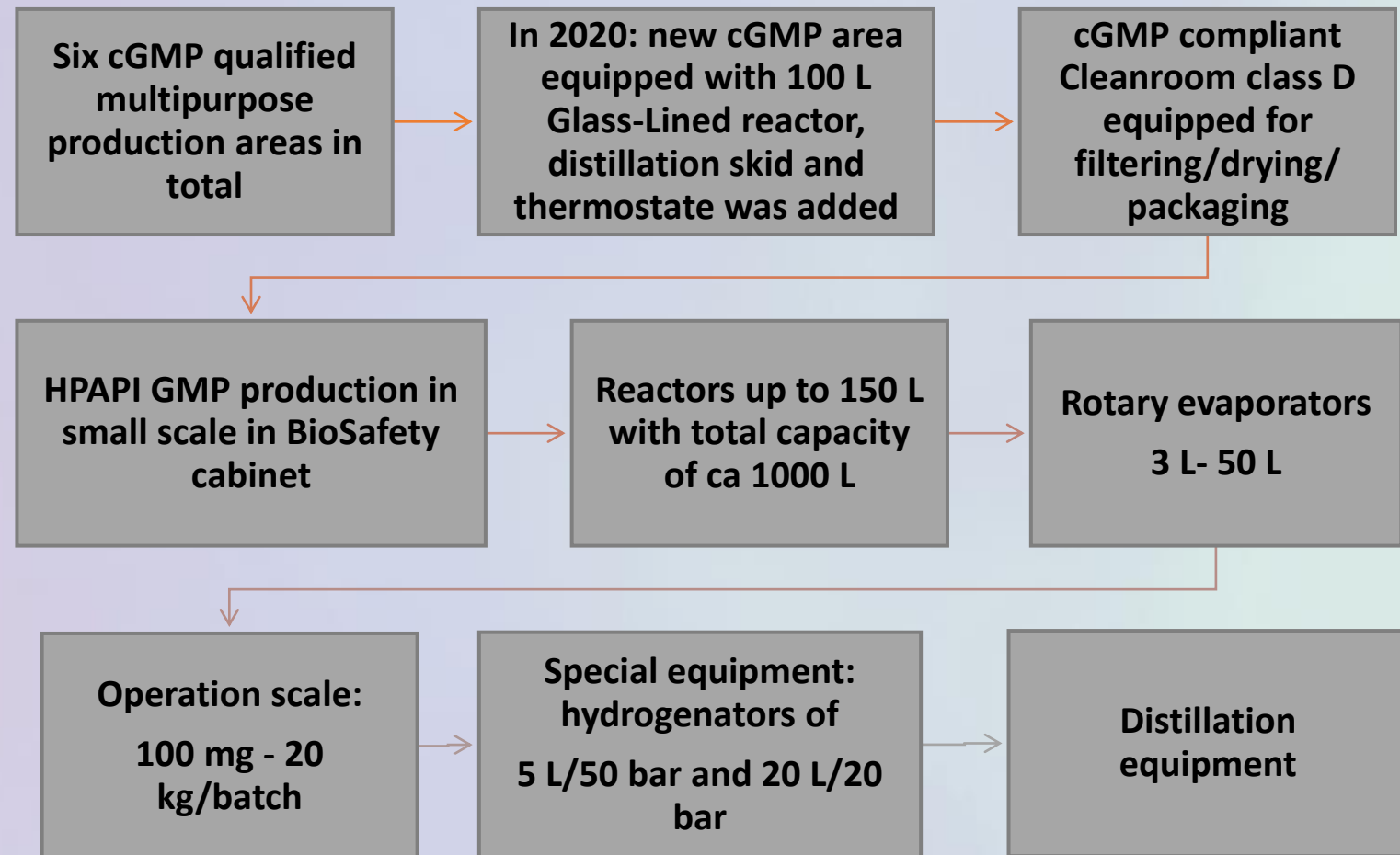
Investors from Netherlands joined the company (30%, SEAL Investment)

Plot for the new API facility purchased (near city border)

Five APIs in development /validation pipeline (regular production start in 2022-2023)

Performed validation of four APIs (regular production start in 2022)

API MANUFACTURING



PLANS FOR 2020-2021

**New API facility/building:
increase capacity to 50-100 kg per batch
with reactors of 2500 L**

Project engineering for the new building – ongoing, will be complete in Aug 2020

Construction of the building –
2021

Fine chemicals development and production

TBD-Biodiscovery produces Ultrahigh grade **D-Luciferin** and **D-Luciferin K salt**.

Both products can be supplied in bulk quantities (kilos).

TBD-Biodiscovery is one of very few companies in the world which has know-how for manufacturing **WHITE Luciferin** and **WHITE Luciferin K-Salt**.

CORE STRENGTHS

SKILLS AND EXPERIENCE:

- Organic chemistry
- Chemical technology
- Analytical chemistry
- Bioorganic chemistry
- QC/QA
- Staff of 50 persons (Number of PhDs 17)
- EU GMP and ASMF

PROJECT MANAGEMENT

- Key Account Managers and Project Managers
- Regular reporting to the customer
- Management according to ISO 9001

Reliable partner
from early
development up
to commercial
manufacturing

Curados B.V. (Netherlands)

Stanford University (US)

Joseph Fourier University (France)

CABB (Finland, Germany, Switzerland)

TUBE Pharmaceuticals (Austria)

TEVA (Israel)

Adama Makhteshim (Israel)

E. Tiefenbacher (Germany)

CFM Oskar Tropitzsch (Germany)

Double Bond Pharm (Sweden)

Grindeks (Latvia)

Dechra (UK)

Kemira (Finland) etc...

We are open to different models of collaboration!

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