

SYNENTEC

THE DRUG DEVELOPMENT ACCELERATOR

myrlmager

Designed to enable

::: myrlmager



PRODUCT INFORMATION

TECHNICAL INFORMATION

Dimensions: HxWxD = 20 x 27 x 50 cm (incl. handle)

Weight: 12.5 kg Power: via USB

Operation: 24/7 at 37 °C and up to 98% humidity

Frame rate: 50 fps @ 8 bit / parallel 48-well imaging

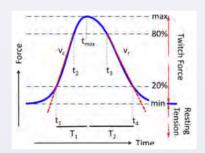
Sales and distribution by **S\NENTEC**

DESIGNED FOR PHENOTYPING OF

- » myrTissue-Cardio
- » myrTissue-Skeletal
- » myrTissue-Stroma

ENDPOINTS

- Active force
- Passive force
- Rate and rhythm
- Contraction kinetics



::: myrCell



::: myrTissue



::: myrPlate



::: myrlmager



::: myrScreen

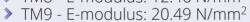
USE WITH myrPlate CULTURES ONLY

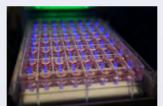
➤ TM4 - E-modulus: 3.63 N/mm²

➤ TM5 - E-modulus: 4.73 N/mm²

TM6 - E-modulus: 6.08 N/mm²

TM7 - E-modulus: 8.33 N/mm² > TM8 - E-modulus: 12.46 N/mm²





E-modulus calculated according to Kunz and Studer (Kunststoffe international 96 (6) (2006) 92–94

KEY BENEFITS AT A GLANCE

- Phenotypic screens in human macro-scale tissue / organoids
- Designed for operations in standard cell culture incubators
- Best-in-class tissue / organoid phenotyping enabled by myrPlate cultures in myrImager
- Longitudinal studies with repeated measurements in up to 12 month myrTissue cultures in myrPlates

REFERENCES

Heart Muscle: Tiburcy et al. 2017 Circulation, Streckfuss-Bömeke et al. 2017 J Mol Cell Cardiol, Long et al. 2018 Sci Adv, Tiburcy et al. 2020 STAR Protoc, Hanses et al. 2020 Circulation, Fomin et al. 2021 Sci Transl Med, Del Campo et al. 2022 Cardiovasc Res, Seiberts et al. 2024 Cardiovasc Res, Kyriakopoulou et al. 2024 Nat Cardiovasc Res, WO2015/025030, WO2015/040142, WO2017/207431

Skeletal Muscle: Shahriyari et al. 2022 J Cachexia Sarcopenia Muscle, Shahriyari et al. 2023 STAR Protoc, WO2017/207431, WO2021/074126

Connective tissue: Santos et al. 2019 J Mol Cell Cardiol, Kittana et al. 2021 Int J Nanomedicine, Santos et al. 2021 J Vis Exp, Santos et al. 2022 Biomater Adv, WO2017/207431, WO2022/023451

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