



Analysis of guinea-pig ECG showing high-amplitude T wave

KEY FEATURES

- Real-time beat-to-beat analysis
- Automated detection of PQRST points
- Computation of beat-derived intervals
- Detection of QRS complexes
- Auto-adaptive algorithms to changes in beat morphology
- Detection of abnormal beats
- GLP and 21 CFR Part 11 compliant

EFFICIENT ANALYSIS IN A HEARTBEAT!

Each animal species exhibits specific electrocardiogram (ECG) particularities. Dogs for example are known for intense and rapid heart rate changes. In rats, the beginning of the T wave merges with the end of the QRS complex without an isoelectric ST segment.

ECG waveform **morphology** and **duration** may also vary with experimental subjects and conditions.

Our portfolio includes **real-time** automated ECG analyzers compatible with multiple **species** and experimental protocols. The modules are designed for full beat-to-beat **P-QRS-T** analysis and remain easy to use with little or no parameters to set.

ECG characteristic points P, Q, R, S, T can also be edited and validated with complementary modules.

Our species and context-dependent ECG analyzers were developed and **validated** from an extensive real ECG signals database manually annotated by experts.

SPECIES-SPECIFIC

NOTOCORD-hem™ software provides unique **species** and **context-dependent** ECG analyzers, adapted to changes in waveform amplitude and duration, and robust to noise:

- **ECG30d** for dogs
- **ECG30g** for guinea-pigs
- **ECG31p** for non-human primates

SPECIFIC MORPHOLOGIES

Another ECG analyzer, **ECG30s**, focuses on **QT stabilization**. Used on swine, minipig and anesthetized dog ECG signals, ECG30s's **efficiency** is high against challenging situations like:

- T-wave complex morphology
- Fast-changing T-wave
- Difficulty to place T-end
- Discrimination between sharp P wave and QRS complex

SPECIFIC FEATURES OF OUR ECG ANALYZERS

Designed for different animal species such as dogs, guinea-pigs and non-human primates, our ECG analyzers increase results specificity and allow quality interpretation of your experiments:



ECG30d for dogs

- For anesthetized or conscious dogs, restrained or freely moving



ECG30g for guinea-pigs

- For anesthetized or conscious freely moving animals
- Accuracy of automated detection
- Reliable QRS detection with high amplitude T wave



ECG31p for primates

- For freely-moving or restrained conscious non-human primates
- Reliable QRS detection, even with high amplitude T waves
- Detection of low amplitude P and T waves
- Detection of T and P wave overlaps
- Detection of positive and negative QRS complexes
- Adaptation to changes in waveform amplitude, duration and sign of QRS
- Robust to noise



ECG30s for QT stabilization

- For freely-moving or restrained animals
- Consistency of T wave end detection on changing wave morphologies
- Tracking of different T wave end candidates
- Discrimination between sharp P wave and QRS complex
- Robust to noise

+ Related products

ARR30a	Arrhythmia detector
ECG51a	Semi-automated ECG analyzer
IRF10a	Infinite impulse response filter
PDR10a	Specific frequency filter
QTC10a	QT corrections calculator
RME10a	Reference mark editor for arrhythmia
SGF10a	Savitsky Golay filter
VME10e/v	Editing and validation of ECG analysis / with synchronized video

Working in a GLP environment?

21 CFR Part 11 compliance is achieved via our AccessManager security application, activating a highly secure and compliant Audit Trail.

ECG30/31x

EUROPE - Headquarters

NOTOCORD SAS
Tel. +33 (0)1 34 80 00 00
information@notocord.com

NORTH AMERICA

NOTOCORD Inc.
Tel. +1 888 204 7770
information@notocord.com

JAPAN

PRIMETECH Corp.
Tel. +81 (0)3 3816 0851
sales@primetech.co.jp

SOUTH KOREA

IWOO Scientific Corp.
Tel. + 82 (0)2 3473 2332
sale@iwoo.co.kr

SEJONG-BIO

Tel. + 82 (0)4 2826 9473
sales@sejong-bio.co.kr

TAIWAN

MESONICS Systems Ltd.
Tel. + 886 2 2736 4066
info@mesonics.com.tw

CHINA

B&E Teksystems Ltd
Tel. + 86 10 8758 5773
bandetek@hotmail.com

INDIA

BIO-DOT Scientific, New Delhi
Tel: +91 11 2636 3490
upkar@biodotscientific.com

www.notocord.com
information@notocord.com
+33(0) 1 34 80 00 00



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