SNAPSHOOT
ENGINEERED FOR A SAFER TOMORROW

현장을 이해하고, 필요한 솔루션을 연결합니다.

산업안전 · 추락방지 시스템
산업용 소재 · 건축자재
제품 제안부터 공급·시공·설치·교육까지



COMPANY INFORMATION

스냅슛 (SNAPSHOOT)

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TECHNICAL DOCUMENTS

인증서 · 데이터시트 · 기술자료

제품의 규격과 성능, 인증 및 적용 조건을 확인하기 위한 자료입니다.

ABOUT SNAPSHOOT

제품 공급을 넘어, 현장에 맞는 해결책으로

스냅슛은 산업현장의 작업 환경과 요구 조건을 바탕으로
적합한 제품과 시스템을 제안합니다. 현장 실사를 통해 설치 조건을 확인하고,
공급부터 시공·설치 및 사용 교육까지 필요한 과정을 함께합니다.

추락방지 시스템

안전대부착설비 · 수평·수직 라이프라인
레일 시스템 · 리지드 포스트

밀폐공간 진입·구조 솔루션

데빗암 · 삼각대 · 구조용 윈치
윈치 안전블록 · 구조장비

산업안전 보호구

전신형 안전대 · 랜야드 · 안전블록
작업 환경에 맞춘 개인보호구

산업용 소재·건축자재

산업용 테이프 · 접착제 · 기능성 소재
구조용 스크류 · 목조건축 자재

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홈페이지 바로가기 →
문서 라이브러리 바로가기 →
시공사례 바로가기 →
문의하기 →

본 페이지는 스냅슛의 자료 제공 안내용 표지입니다. 첨부된 인증서 및 기술자료의 발행 주체, 인증 대상과 적용 범위는 해당 원문을 기준으로 확인해 주세요.

Megazyme

MICROPLATE FORMAT
ASSAY PROCEDURE
For

ACETIC ACID

(Rapid, Manual, Simple and End-Point AK / PTA Format)

ACETRM-MPF
03/09



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NOTE:

1. This booklet must be used in conjunction with the the data booklet for K-ACETRM, downloadable from where the product appears on the Megazyme website (www.megazyme.com).

2. Prepare the reagents and test samples as described in the data booklet for K-ACETRM.

2. For each batch of samples that are applied to the microplate format of K-ACETRM it is highly recommended that a standard calibration curve is included on the same microplate.

EQUIPMENT (RECOMMENDED):

1. Disposable 96 well polystyrene clear, flat bottom microplates e.g. Matrix Technologies Corp. cat. no. 4915 (www.matrixtechcorp.com).
2. Disposable 25 mL reagent reservoirs, e.g. Matrix Technologies Corp. cat. no. 8093 (www.matrixtechcorp.com).
3. Multichannel Micro-pipettors, e.g. Gilson Pipetman® Ultra 8-channel (1-20 μL and 20-300 μL).
4. Stop clock.
5. Microplate shaker, e.g. Heidolph Titramax 100 or 1000 (www.heidolph-instruments.com).
6. Microplate reader set at 340 nm.

MICROPLATE FORMAT:

Wavelength: 340 nm
Microplate: 96-well (e.g. clear flat-bottomed, glass or plastic)
Temperature: ~ 25°C
Final Volume: 0.266 µL
Sample Solution: 0.03-2.5 µg acetic acid per well
(in 10 µL sample volume)

Pippette into wells	Blank	Sample
distilled water (~25°C)	210 µL	200 µL
sample	-	10 µL
solution 2 (NADH/ATP/PEP/PVP buffer)	50 µL	50 µL
solution 3 (CoA)	2 µL*	2 µL*
suspension 4 (D-LDH/PTA/PK)	2 µL*	2 µL*
Mix**, read the absorbances of the solutions (A_1) after approx. 2 min and start the reaction by addition of:		
Suspension 5 (AK)	2 µL*	2 µL*
Mix**, read the absorbances of the solutions (A_2) at the end of the reaction (approx. 4 min). If the reaction has not stopped after 4 min, continue to read the absorbances at 2 min intervals until the absorbances increase constantly over 2 min.		

* if preferred, dilute sufficient enzyme for the required set of assays 1 in 5 with distilled water, and add 10 µL. Reduce the amount of water appropriately to maintain the same final volume.

** for example using microplate shaker, shake function on a microplate reader, or repeated aspiration (e.g. using pipettor set at 50 - 100 µL volume).

CALCULATION:

Calculations can be performed as described in the K-ACETRM data booklet* after appropriate path-length adjustment to 10 mm. This can either be performed automatically by the plate reader, or after manual determination of the true path-length (i.e. by simply performing a “manual” format assay of the standard solution in a 10 mm cuvette, and comparing the absorbance change to that of a reaction performed according to the “microplate” format). Alternatively a standard calibration curve can be used.

NOTE: Where sample readings can be corrected to a 10 mm path-length the calculations can be simplified by using the Megazyme ***Mega-Calc***™ *.

* available where the product appears on the Megazyme website (www.megazyme.com).



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