

Analysis of MTG-Activity

Assay **Hydroxamate Assay**
Revision Number **RN 2.2**



Sample Sample name, Lot: 123456 (customer name, delivery date yyyy-mm-dd)
Apperance e.g. colour of your sample
Reconstitution 10 mg/mL, dissolved in 0.2 M Tris-HCl, pH 6.0
Remark * none; ** none
Assay Hydroxamate Assay (according to SOP-A-007)
molar extinction coefficient used: $\epsilon = 0.47 \text{ mL}/\mu\text{mol}/\text{cm}$
Sample volume 50 μL ; assay time 10 min
Reagent 1 Expiry date 2020-07-12
Reagent 2 freshly prepared
Component C001 4218aC001

Measurement

preparation	conc. [mg/ml]	dilution	$\Delta E_{525 \text{ nm}}$ #1	$\Delta E_{525 \text{ nm}}$ #2	$\Delta E_{525 \text{ nm}}$ #3	$\Delta E_{525 \text{ nm}}$ mean	Activity ² [U/ml]	Specific activity ² [U/mg]	Specific activity ² [U/g]	Intra-assay deviation ¹ [%]
1*	10	1	0,2754	0,2762	0,2745	0,2754	1,2309	0,1231	123	0,3%
2**	10	1	0,2748	0,2750	0,2748	0,2749	1,2287	0,1229	123	0,0%
mean Specific actcivity								0,12	123	
Inter-assay ¹ deviation [%]								0,1%		

¹ standard deviation/mean

Quality criteria Inter- and intra-assay deviation less than 5%: passed

Result Lot 123456 of Sample name has a specific activity of 123 U/g.

Date yyyy-mm-dd

Operator, Zedira GmbH