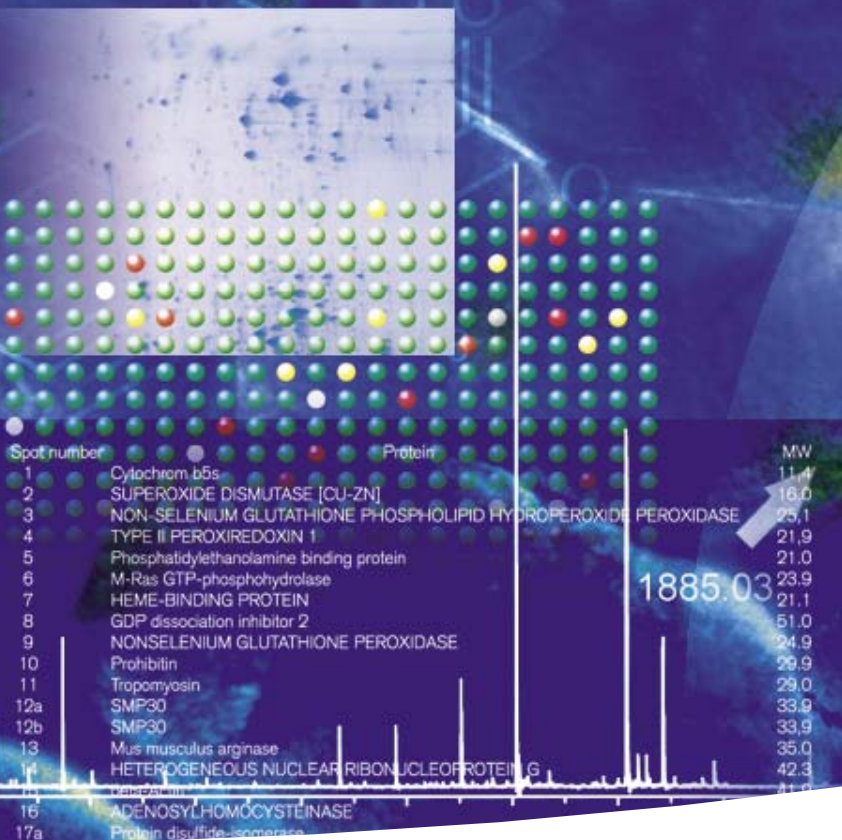


MALDI-TOF-MS Cooking Book



Ver. 1.0

Prepared by T.Nirasawa

2-May-03

BRUKER
DALTONICS[®]

Enabling Life Science Tools Based on Mass Spectrometry™

Table 1 推奨マトリックス

matrix	mono MW	for	size (g)	Parts No. (Daltonics)
-cyano-4-hydroxy-cinnamic acid (CCA)	189.17	# peptide	1 5	#201344 #203072
sinapinic acid (SA)	224.22	# peptide # protein	1 5	#201345 #203073
2,5-dihydroxy-benzoic acid (2,5-DHB)	154.12	# protein # glycopeptide # glycoprotein # oligosaccharide # polymer	1 5	#201346 #203074
Super DHB (SDHB)	187.20	# glycopeptide # glycoprotein # oligosaccharid	5	#209813
3-Hydroxypicolinic acid (3-HPA)	139.11	# nucleotide	1 5	#201224 #203070
α -Cyano-4-hydroxycinnamic acid methyl ester (CNME)	203.20	#good assay	1 5	#201225 #203071
2,3,4 -Trihydroxyacetophenone (2,3,4-THAP)	168.15	# nucleotide	1 5	#206148 #206149
2,4,6 -Trihydroxyacetophenone (2,4,6-THAP)	168.15	# nucleotide #phosphopetide	1 5	#206154 #206153
6-aza-2-thiothymine (ATT)	143.02	# nucleotide DS #organometallic complexes		
trans-3-indole-acrylic acid (IAA)	187.20	# polymer # aromatic compound	1 5	#209803 #209801
Dithranol (DIT)	226.23	# polymer # aromatic compound	1 5	#209783 #209785



#26755 MTP 384 massive target T

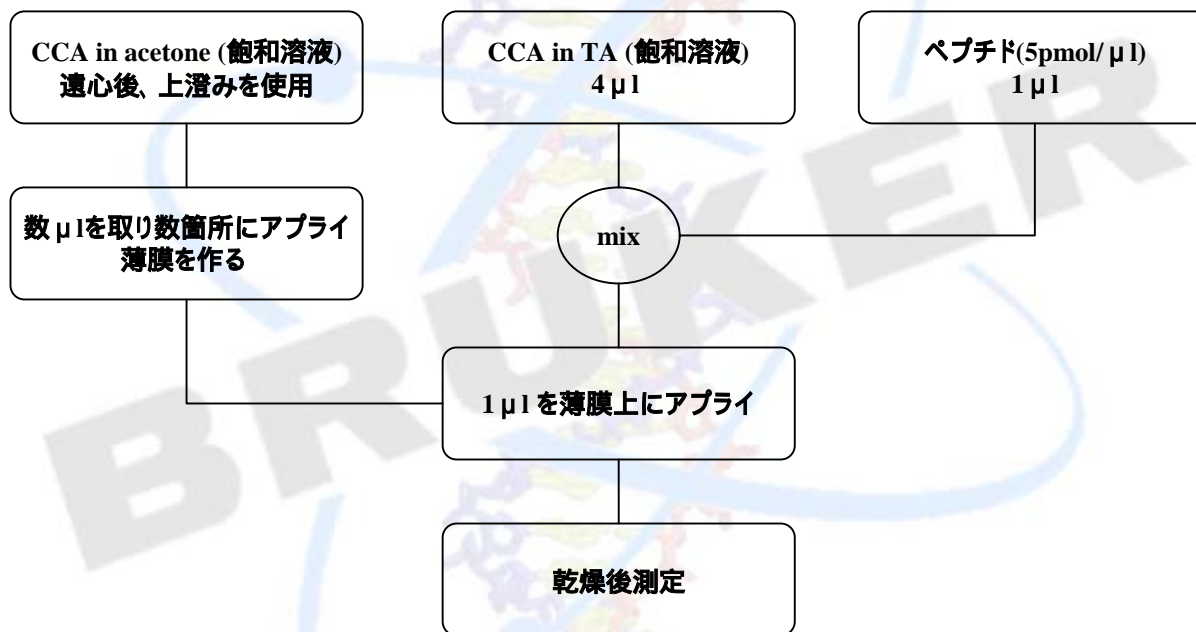
#26993 MTP 384 massive target gold plated T

#209519 MTP 384 target ground steel T F

#209520 MTP 384 target plate polished steel T F

ペプチド

Double Layer Preparation



#209520 MTP 384 target plate polished steel T F



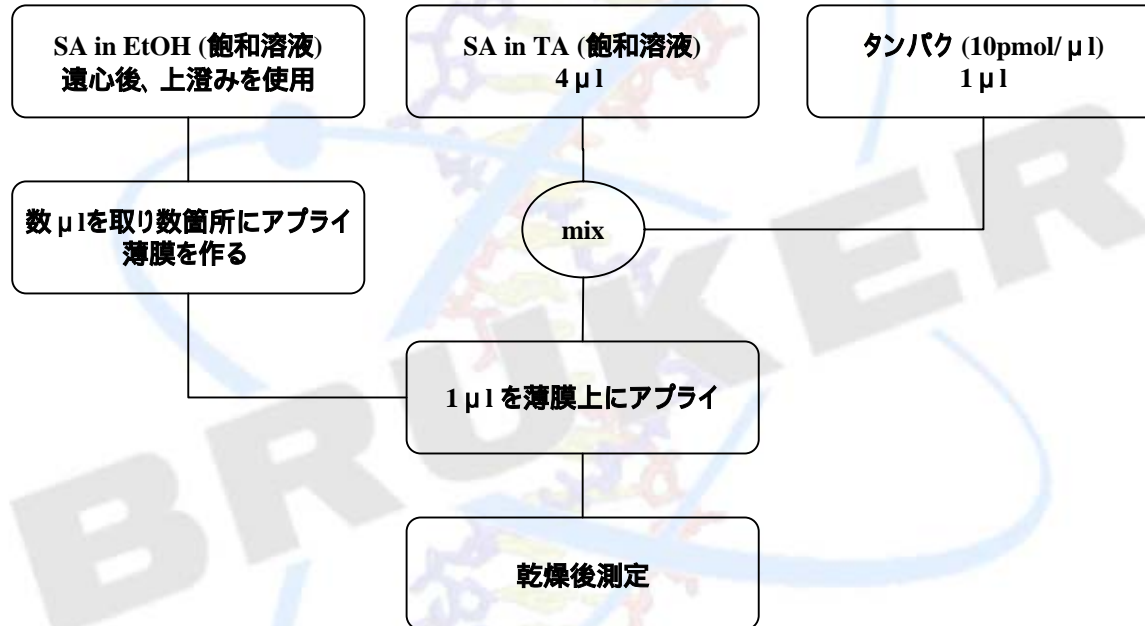
#26755 MTP 384 massive target T

#26993 MTP 384 massive target gold plated T

#209519 MTP 384 target ground steel T F

#209520 MTP 384 target plate polished steel T F

Double Layer Preparation



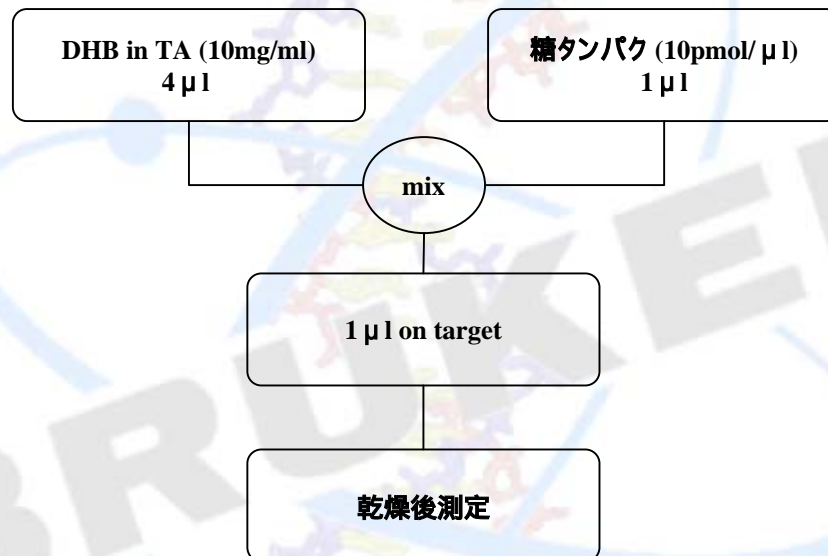
#209520 MTP 384 target plate polished steel T F



#26755 MTP 384 massive target T

#26993 MTP 384 massive target gold plated T

#209519 MTP 384 target ground steel T F



#26755 MTP 384 massive target T

#26993 MTP 384 massive target gold plated T

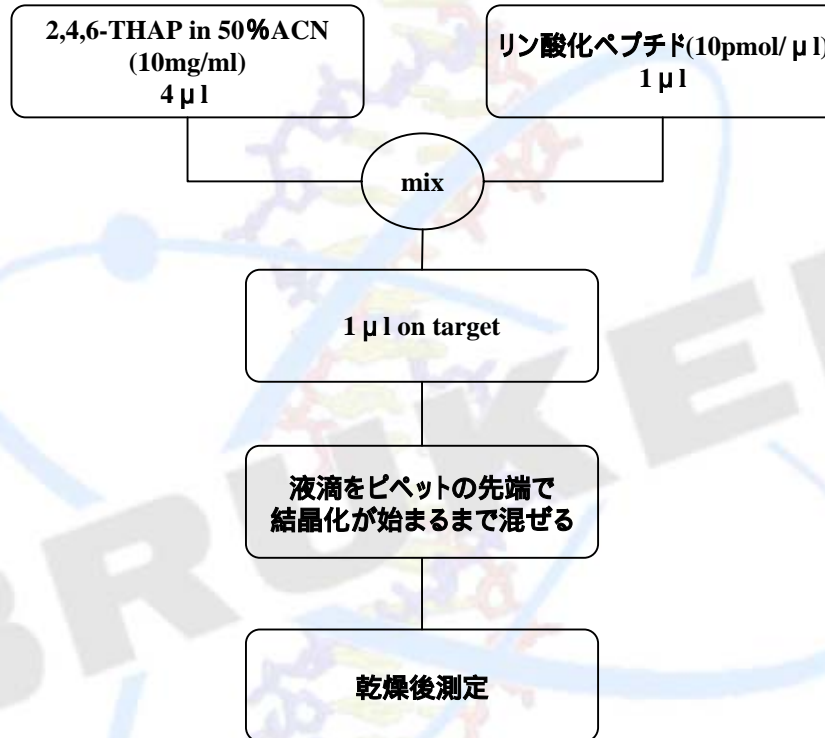
#209519 MTP 384 target ground steel T F



#26755 MTP 384 massive target T

#26993 MTP 384 massive target gold plated T

#209519 MTP 384 target ground steel T F



#26755 MTP 384 massive target T

#26993 MTP 384 massive target gold plated T

#209519 MTP 384 target ground steel T F

#209520 MTP 384 target plate polished steel T F



#26755 MTP 384 massive target T

#26993 MTP 384 massive target gold plated T

#209519 MTP 384 target ground steel T F

CCA stock	1mg/ml acetone
CCA working(M)	2:1= EtOH : acetone
洗浄溶媒(W)	0.1%TFA in H ₂ O
再結晶溶媒(R)	6:3:1 EtOH : acetone : 0.1%TFA



(* 1) 推奨プロトコルで消化した場合

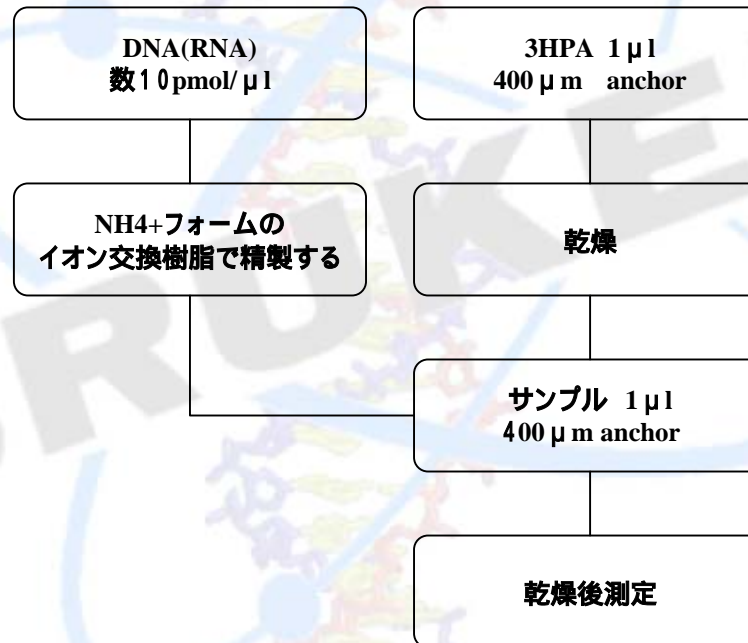


CCA stock	97% acetone : 0.1% TFA
CCA working(M)	1:1
	CCA stock : 97% acetone + 0.1% TFA
洗浄溶媒(W)	0.1%TFA in H ₂ O
再結晶溶媒(R)	6:3:1
	EtOH : acetone : 0.1%TFA

- (* 1) 推奨プロトコルで消化した場合
- (* 2) サンプルの濃度によって時間は変動する
- (* 3) 通常はThin Layerのままでも測定可能

PSD,LIFT測定を行う場合
R 1µl で再結晶する(*3)

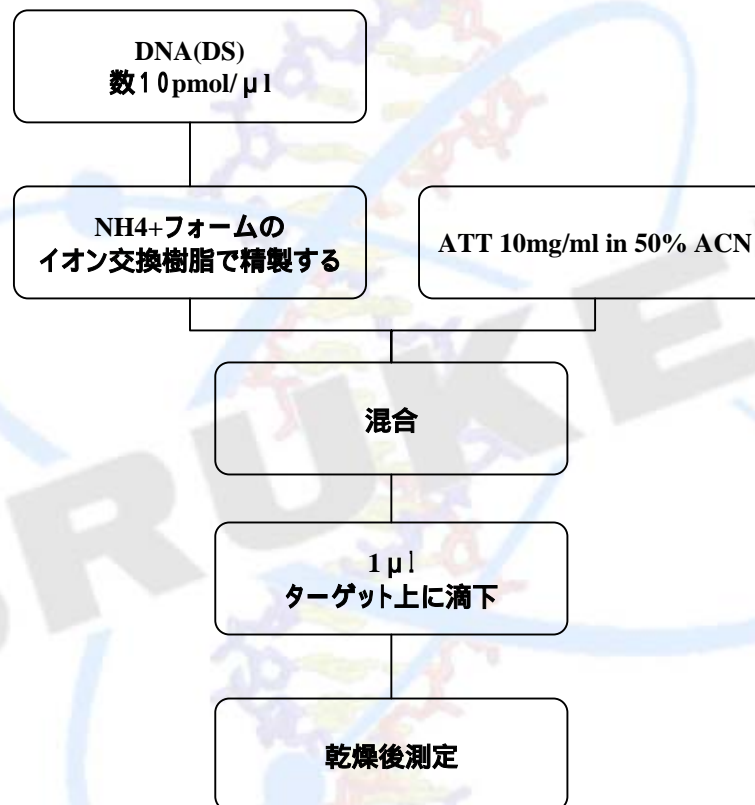
3HPA(10 mg/ml)+ Diammonium hydrogen citrate (DAC 1 mg/ml) in H₂O

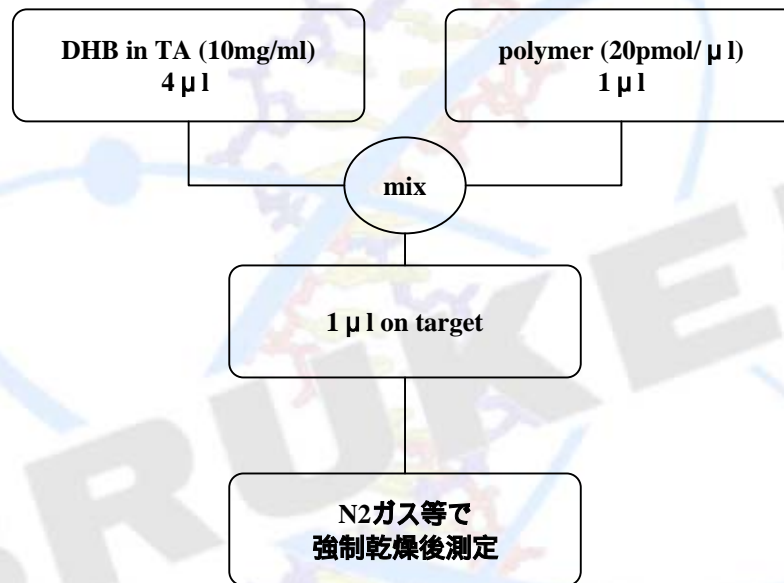


2,4,6-Trihydroxyacetophenone (2,4,6-THP) in 50% ACN (10mg/ml)
2,3,4-Trihydroxyacetophenone (2,3,4-THP) in 50% ACN (10mg/ml)
Diammonium hydrogen citrate (e.g. Fluka Part No. 09833) in 50% ACN (DAC 1 mg/ml)
THAP 2:1= 2,4,6-THP: 2,3,4-THP+DAC

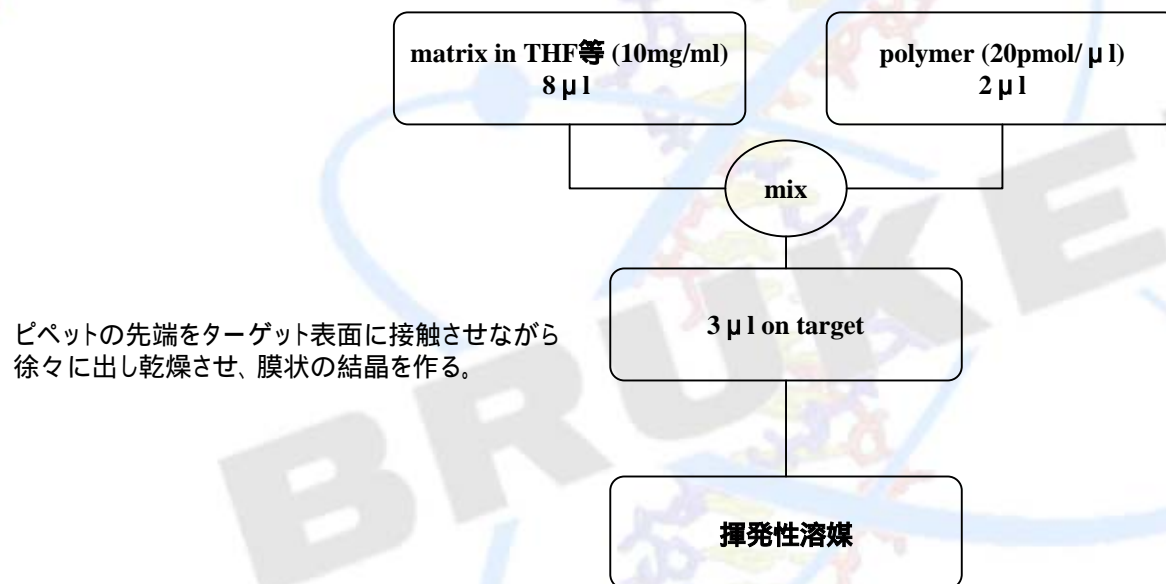


6-aza-2-thiothymine (ATT)





適合マトリックスはTable 2を参照



適合マトリックスはTable 2を参照

Table 2 Polymerの推奨マトリックス

matrix	mono MW	for	size (g)	Parts No. (Daltonics)	Salt
α-cyano-4-hydroxy-cinnamic acid (CCA)	189.17	Tween 20	1	#201344	
			5	#203072	
sinapinic acid (SA)	224.22	Polyacrylic acid	1	#201345	
			5	#203073	
2,5-dihydroxy-benzoic acid (DHB)	154.12	PEG PPG	1	#201346	NaCl
			5	#203074	KCl
2,4,6-Trihydroxyacetophenone (2,4,6-THAP)	168.15	Poly(ethylene terephthalate)	1	#206154	
			5	#206153	
trans-3-indole-acrylic acid (IAA)	187.20	PMMA PS Poly(butyl acrylate) Dendrimer Polybutadiene	1	#209803	silver trifluoroacetate
			5	#209801	silver nitrate Silver (I) acetylacetonate
Dithranol (DIT)	226.23	Polystyrene PPG PMMA Poly(methyl acrylate) Poly(ethylene terephthalate) Polycarbonate	1	#209783	silver trifluoroacetate
			5	#209785	silver nitrate
all-trans-Retinoic acid	300.40	PS (> 60kDa)		Fluka 95152	silver trifluoroacetate silver nitrate
9-nitro-anthracene (9NA)	223.23	Fullerene Dendrimer		Fluka 72740	
5-Chlorosalicylic acid (5CSA)	172.57	Si oil		Aldrich C7,090-8	
2'-(4-hydroxy-phenylazo)benzoic acid (HABA)	242.24	Nylon Polycarbonate Tween 85		Fluka 54793	
1,4-Bis(5-phenyloxazol-2-yl)benzene (POPOP)	364.40	Polyisoprene Polybutadiene		Fluka 15150	Silver (I) acetylacetonate
3-amino-quinoline (3AQ)	144.18	basic compound		Fluka 7336	
2,6-Dihydroxyacetophenone (DHAP)	152.15			Fluka 37468	