

LAMPIRAN

Lampiran A. Hasil analisis Logam Perak dalam Fasa Umpan

Tabel 1. Hasil Analisis logam perak dalam fasa umpan

Variasi larutan penerima	Ag (ppm)	
	FU ₀	FU ₃
1. Asam nitrat HNO ₃		
pH = 0,5	90,46	43,87
pH = 0,74	90,46	40,66
pH = 1	90,46	34,68
2. Asam klorida HCl		
pH = 0,5	90,46	34,68
pH = 0,74	90,46	16,26
pH = 1	90,46	34,03
3. Asam sulfat H ₂ SO ₄		
pH = 0,5	90,46	41,30
pH = 0,74	90,46	52,21
pH = 1	90,46	17,21

Keterangan:

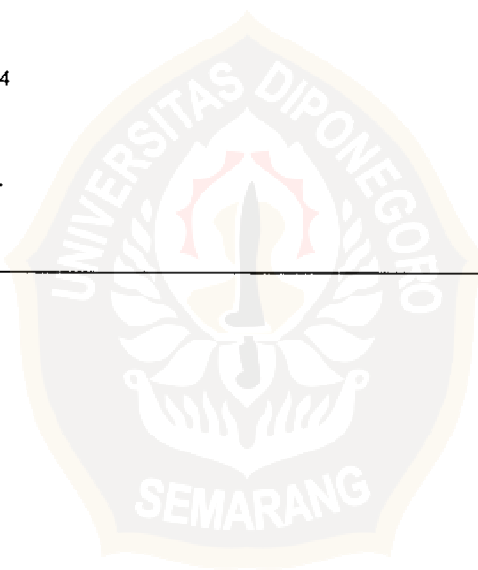
FU₀: fasa umpan sebelum pengadukan

FU₃: fasa umpan setelah pengadukan 3 jam

Lampiran B. Data Persen Transpor Logam Ag

Tabel 2. Data persen transpor Logam Ag

Variasi larutan penerima	% transpor logam Ag
1. Asam nitrat HNO_3	
pH = 0,5	51,50%
pH = 0,74	55,05%
pH = 1	61,66%
2. Asam klorida HCl	
pH = 0,5	61,66%
pH = 0,74	82,03%
pH = 1	62,38%
3. Asam sulfat H_2SO_4	
pH = 0,5	54,35%
pH = 0,74	42,28%
pH = 1	80,98%



Lampiran C. Perubahan Nilai pH Fasa Umpan dan Fasa Penerima

Tabel 3. Perubahan nilai pH fasa umpan dan fasa penerima

Variasi pH fasa umpan	pH fasa umpan		pH fasa penerima	
	t_0	t_3	t_0	t_3
pH = 2	2,01	1,89	0,74	1,42
pH = 3	3,02	2,69	0,74	1,20
pH = 4	4,02	3,33	0,74	1,42



Lampiran D. Hasil analisis Logam Perak pada Fasa Umpan Sebelum dan Sesudah Pemisahan

Tabel 4. Hasil Analisis logam perak pada fasa umpan sebelum dan sesudah Pemisahan

Variasi pH fasa umpan	Ag (ppm)	
	FU ₀	FU ₃
pH = 2	86,93	54,25
pH = 3	90,46	16,26
pH = 4	89,67	31,83

Keterangan:

FU₀: fasa umpan sebelum pengadukan

FU₃: fasa umpan sesudah pengadukan selama 3 jam



Lampiran E. Persen Transpor Logam Ag pada Variasi pH Fasa Umpan

Tabel 5. Data % transpor logam Ag pada variasi pH fasa umpan

Variasi pH fasa umpan	% transpor logam Ag
pH = 2	37,59%
pH = 3	82,03%
pH = 4	64,50%



Lampiran F. Hasil Analisis Logam Ag dan Pb Sebelum dan Sesudah Pemisahan

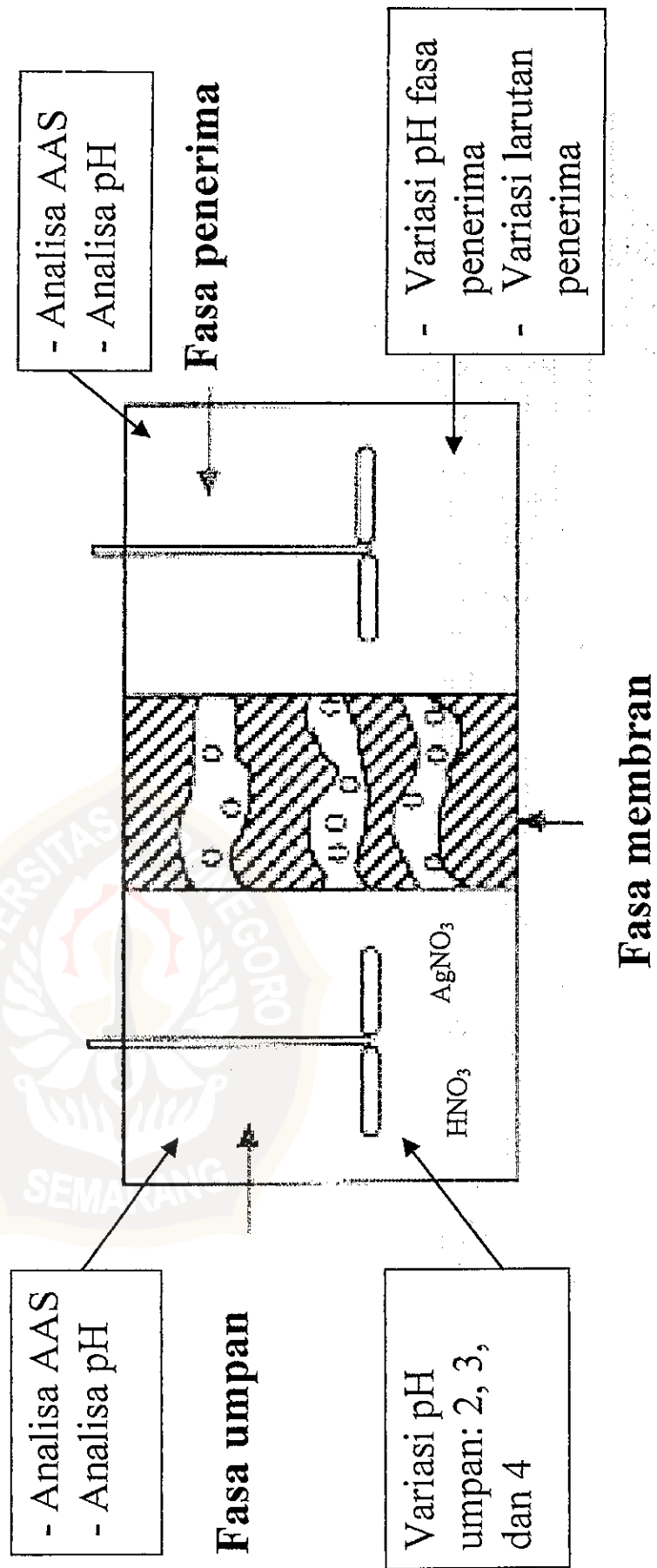
Tabel 6. Hasil Analisis logam Ag dan Pb Sebelum dan Sesudah pemisahan

Variasi larutan penerima	Ag (ppm)		Pb (ppm)	
	FU ₀	FU ₃	FU ₀	FU ₃
1. HNO ₃ (pH 0,74)	77,91	41,44	54,05	30,26
2. HCl (pH 0,74)	77,91	12,22	53,06	32,25



Lampiran G

Gambar Proses Pengadukan





MASALAH ANALISIS

No. : 659/HWAAS-KA/08/04
Nama Pengirim : Ayati Rahmawati, Ngresep Timur IV / 21C Semarang.
Jumlah sampel : 15
Penentuan : Kadar Ag
Tgl. Analisis : 09 Agustus 2004

No	Kode sampel	Hasil Pengukuran (ppm)			Metode
		I	II	III	
1.	HNO ₃ (pH=0,5)	44,083	43,441	44,083	Atomic Absorption Spect
2.	HNO ₃ (pH=0,74)	40,234	40,876	40,876	"
3.	HNO ₃ (pH=1)	33,820	36,386	33,820	"
4.	HCl (pH=0,5)	35,103	34,461	34,461	"
5.	HCl (pH=0,74)	16,514	15,231	17,027	"
6.	HCl (pH=1)	33,178	34,461	34,461	"
7.	H ₂ SO ₄ (pH=0,5)	41,517	42,158	40,234	"
8.	H ₂ SO ₄ (pH=0,74)	53,063	51,780	51,780	"
9.	H ₂ SO ₄ (pH=1)	14,811	17,633	19,173	"
10.	Fasa Umpan Awal (FU ₀)	90,270	90,400	90,703	"
11.	FU ₀ AgNO ₃ (pH= 3)	89,412	91,373	90,588	"
12.	FU ₀ AgNO ₃ (pH= 2)	84,310	88,240	88,240	"
13.	FU ₀ AgNO ₃ (pH= 4)	87,451	89,020	92,549	"
14.	FU ₁ AgNO ₃ (pH= 2)	56,860	55,880	50,000	"
15.	FU ₁ AgNO ₃ (pH=4)	31,569	34,706	29,216	"



HASIL ANALISIS

No. : 666/HA/AAS-KA/08/04
Nama Pengirim : Ayati Rahmawati, Ngresep Timur IV / 21C Semarang.
Jumlah sampel : 1
Penentuan : Kadar Ag
Tgl. Analisis : 19 Agustus 2004

No	Kode sampel	Para meter	Hasil Pengukuran (ppm)			Metode
			I	II	III	
1.	FU ₀ camp (HNO ₃)	Ag	78,039	78,039	77,647	Atomic Absorption Spect
		Pb	54,060	53,080	55,020	"
2.	FU ₀ camp (HCl)	Ag	78,039	78,039	77,647	"
		Pb	53,080	53,020	53,080	"
3.	FU ₃ camp (HNO ₃)	Ag	41,176	41,765	41,373	"
		Pb	30,260	30,260	30,260	"
4.	FU ₃ camp (HCl)	Ag	13,039	10,980	12,647	"
		Pb	33,240	33,240	30,260	"