

SURAT PERMINTAAN BARANG

Print 08-Jul-26
Time: 12:52:19

PR Number : RQ001054

Date: 08-Jul-26

Department :

QC

Line	Item Number	Description	Due Date	QTY
1	IRE00004	2-Propanol GR Pa (Isopropyl Alcohol) Ex. Smartlab (A-1087) 1 Botol @4000 ml	10-Sep-26	24,000.00 ml

Dibuat 08/26 3/07 mm	Diperiksa 08/26 07	Accounting/Finance	Menyetujui
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Distribusi Putih (Purchasing)

Kuning/Hijau (Logistik)

Merah (Accounting/Finance)

ANALISA PERMINTAAN BARANG

Tgl SPB : 08-Jul-26
 No.SPB : RQ001054
 Status : Planned MRP

No	Kode Barang	Nama Barang	Stok Saat ini (A)	Rencana Kebutuhan (B)	Sisa Planned	Kekurangan (D)	Pending Penerimaan (E)		Jmh Permintaan Due Date	Realisasi Pembelian	Realisasi Produksi	Lead Time
							PR	PO				
1	IRE00004	2-Propanol GR Pa (Isopropyl Alcohol)	8,864.96	21,005.00 Dec-26	0.00	-12,140.04	0.0	0.0	24,000.00 ml Sep-26	24,000.00	0.00	90 hari

URAIAN : Untuk Produksi apa, Rencana kerja brp bulan, untuk kebutuhan brp batch , Barang yang diminta, Ukuran, Untuk Kebutuhan, Baru/Penggantian, Alasan-alasan kebutuhan, estimasi Harga, Budegt tersedia / Belum dll) D = A - B + C + E)

Packing Original : 1 Botol @4000 ml

Realisasi Penggunaan :

Apr : 3666 ml

Mei : 2755 ml

Jun : 3360 ml

Rencana kebutuhan/bulan : 3260 ml

Revisi forecast berdasarkan rata-rata realisasi penggunaan

Digunakan untuk analisa produk Isoflurane 100 & 250, Sevofluran 100 & 250, Cotrimoxazole tablet, Allopurinol, Maprotilline, Ranitidine Injeksi, Bahan baku, Stabilita, Validasi dan Compliance

Pos 08/26
3 08/26
Pos 08/26

RENCANA KEBUTUHAN REAGEN UNTUK PENGUJIAN RUTIN

2-PROPANOL / ISOPROPYL ALCOHOL

Item Number	Description	Jul	Aug	Sep	Oct	Nov	Dec	Grand Total
IPJ00310	Isoflurane 100 ml Inh Box 1x1s (Botol)	1		1	1		1	4
IPJ00311	Isoflurane 250 ml Inh Box 1x1s (Botol)	1	1	1	1	1	1	6
IPJ00312	Sevoflurane 250 ml Inh Box 1x1s (Botol)	3	4	3	4	3	4	21
Total Batch								31

Rencana Kebutuhan 2-Propanol / Isopropyl alcohol

No	Nama Produk	Proses	Kebutuhan per batch (ml)	Jumlah batch	Kebutuhan total (ml)
1	Isoflurane 100 ml	Uji Chloride	60 ml	4	240
	Isoflurane 100 ml	Batas Fluoride	600 ml		2400
2	Isoflurane 250 ml	Uji Chloride	60 ml	6	240
	Isoflurane 250 ml	Batas Fluoride	600 ml		2400
3	Sevoflurane 250 ml	Batas Fluoride	600 ml	21	12600
Total					17880
Worstcase (+30%)					23244

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MRP Detail Report

MTM IDR

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7/8/2026

12:52:52 PM

Item Number IRE00004		2-Propanol GR Pa (Isopropyl)		Buyer/Planner		Site MTM
Qty On Hand	8,864.96	UM	ml	Time Fence	0	Manufacturing Lead Time 0
Order Policy	POQ	Minimum Order	4,000	Safety Time	20	Pur/Mfg P
Order Period	90	Maximum Order	0	Safety Stk	0	Inspect No
Order Qty	0	Ord Mult	4,000	Yield%	100.00%	Cumulative Lead Time 0
Issue Policy	Direct	BOM/Formula Code				
						MRP Required No
						Mstr Sched Yes
						Plan Orders Yes

Due Date	Gross Reqmt	Scheduled Receipt	Projected Qty OH	Planned Order(Due)	Details
6/29/2026	1,445.00		7,419.96		Forecast
7/27/2026	3,260.00		4,159.96		Forecast
8/31/2026	3,260.00		899.96		Forecast
9/10/2026			24,899.96	24,000.00	Requisition: RQ001054
9/28/2026	3,260.00		21,639.96		Forecast
10/26/2026	3,260.00		18,379.96		Forecast
11/30/2026	3,260.00		15,119.96		Forecast
12/21/2026	3,260.00		11,859.96		Forecast

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METODA ANALISA PRODUK
ISOFLURANE 250 mL INHALASI
PRODUCT ANALYSIS METHOD
OF ISOFLURANE 250 mL
INHALATION

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Supersedes Number

Titrate with a standard solution of AgNO₃ 0.0020 N using eosin indicator until the titration end point.

5.2.4. Tentukan volume larutan standar AgNO₃ 0.0020 N.

Determine the volume of a standard solution of AgNO₃ 0.0020 N.

6. BATAS FLUORIDE⁽¹⁾

FLUORIDE LIMIT⁽¹⁾

6.1. Prosedur

Procedure

6.1.1. Pembuatan larutan Buffer

Preparation of Buffer solution

6.1.1.1. Timbang seksama 110 g sodium chloride dan 1 g sodium citrate, masukkan ke dalam gelas piala 2000 mL yang telah berisi 700 mL purified water.

Weigh carefully 110 g of sodium chloride and 1 g of sodium citrate, put them into a 2000 mL beaker containing 700 mL of purified water.

6.1.1.2. Tambahkan 150 g sodium hydroxide, aduk sampai larut.

Add 150 g sodium hydroxide, stir until dissolved.

6.1.1.3. Dinginkan sampai suhu ruang sambil terus diaduk dengan perlahan.

Cool to room temperature while continuing to stir slowly.

6.1.1.4. Tambahkan 450 mL acetic acid glacial dan dinginkan.

Add 450 mL of acetic acid glacial and cool.

6.1.1.5. Tambahkan 600 mL isopropyl alcohol.

Add 600 mL of isopropyl alcohol.

6.1.1.6. Encerkan dengan purified water sampai tanda batas, kocok sampai homogen.

Dilute with purified water to the limit mark, shake until homogeneous.

pH larutan antara 5.0 - 5.5

pH of the solution is between 5.0 - 5.5

[Catatan : Larutan dapat digunakan selama 6 minggu jika disimpan pada suhu kamar]

[Note: The solution can be used for 6 weeks if stored at room temperature]

6.1.2. Larutan A (1 mg/mL Ion Fluoride)

Solution A (1 mg/mL Fluoride Ion)

6.1.2.1. Timbang seksama 55 mg sodium fluoride RS, masukkan ke dalam labu ukur 25 mL.

Weigh carefully 55 mg of sodium fluoride RS, put it into a 25 mL measuring flask.

6.1.2.2. Tambahkan 5 mL purified water, aduk sampai larut.

Add 5 mL of purified water, stir until dissolved.

6.1.2.3. Tambahkan 1.0 mL sodium hydroxide 0.0025 N.

Add 1.0 mL of 0.0025 N sodium hydroxide.



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METODA ANALISA PRODUK
ISOFLURANE 250 mL INHALASI
PRODUCT ANALYSIS METHOD
OF ISOFLURANE 250 mL
INHALATION

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Cara Pengujian :

Procedure

Lakukan pengujian seperti tertera pada Prosedur Tetap Cara Menggunakan Alat Karl Fischer yang berlaku di PT. Mersifarma TM.

Perform the test as stated in Standard Operational Procedure for Using the Karl Fischer Tool which applies at PT. Mersifarma TM.

3. IDENTIFIKASI^(1,2)

IDENTIFICATION^(1,2)

Persyaratan : Sesuai dengan spesifikasi produk yang berlaku.

Requirement : In accordance with applicable product specifications

Cara Pengujian : Spektroskopi Inframerah

Procedure : Infrared Spectroscopy

Bandingkan larutan sampel Isoflurane dengan larutan standar Isoflurane menggunakan instrumen Spektroskopi Inframerah.

Compare the Isoflurane sample solution with the standard Isoflurane solution using an Infrared Spectroscopy instrument.



4. PENETAPAN KADAR⁽¹⁾

ASSAY⁽¹⁾

Persyaratan : Sesuai dengan spesifikasi produk yang berlaku.

Requirement : In accordance with applicable product specifications

Cara Pengujian : Berdasarkan hasil analisa cemaran organik.

Procedure : Based on the results of Organic Impurities analysis.

Perhitungan kadar :

Assay Calculation :

Kadar = 100.00% - % total cemaran organik

Assay = 100.00% - % Organic Impurities

5. CHLORIDE⁽¹⁾

CHLORIDE⁽¹⁾

5.1. Persyaratan : Sesuai dengan spesifikasi produk yang berlaku.

Requirement : In accordance with applicable product specifications

5.2. Larutan uji

Test solution

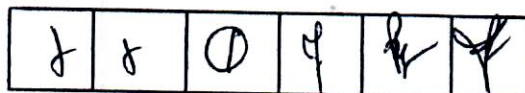
5.2.1. Pipet 10 mL Isoflurane, masukkan ke dalam wadah yang telah berisi 60 mL Isopropyl alcohol.

Pipette 10 mL of Isoflurane, put it into a container containing 60 mL of isopropyl alcohol.

5.2.2. Tambahkan dengan 4 tetes nitric acid (1:1), aduk sampai larut.

Add 4 drops of nitric acid (1:1), stir until dissolved.

5.2.3. Lakukan titrasi dengan larutan standar AgNO₃ 0.0020 N menggunakan indikator eosin sampai titik akhir titrasi.



METODA ANALISA PRODUK
SEVOFLURANE 250 mL
INHALASI
PRODUCT ANALYSIS
METHOD OF SEVOFLURANE
250 mL INHALATION

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Supersedes Number

Weight 110 g Sodium Chloride and 1 g Sodium Citrate, put into 2000 mL beaker glass contained 700 mL purified water.

- 5.1.1.2. Tambahkan 150 g Sodium Hydroxide, aduk sampai larut.
Add 150 g Sodium Hydroxide, stir until soluble.
- 5.1.1.3. Dinginkan sampai suhu ruang sambil terus diaduk dengan perlahan.
Cool to room temperature with slowly continuous stirring.
- 5.1.1.4. Tambahkan 450 mL Asam Asetat Glacial, dinginkan.
Add 450 mL Acetic Acid Glacial, cold it.
- 5.1.1.5. Tambahkan 600 mL Isopropyl Alcohol.
Add 600 mL isopropyl alcohol.
- 5.1.1.6. Encerkan dengan air sampai tanda batas, kocok sampai homogen.
Dilute with purified water up to volume, shake until homogenous.



pH larutan antara 5.0 - 5.5.

[Catatan : Larutan dapat digunakan selama 6 minggu jika disimpan pada suhu kamar]
pH solution between 5.0-5.55.

[Note : Solution can use till 6 weeks if save on room temperature]

- 5.1.2. Pembuatan larutan Sodium Hydroxide 0.01 N
Preparation of Sodium Hydroxide solution 0.01 N
 - 5.1.2.1. Timbang seksama 0.25 g sodium hydroxide, masukkan dalam gelas piala 1000 mL.
Weight 0.25 g Sodium Hydroxide, put into 1000 mL beaker glass.
 - 5.1.2.2. Tambahkan 750 mL air, sonikasikan 10 menit.
Add 750 mL purified water, sonicate 10 minutes.
 - 5.1.2.3. Tambahkan air hingga 1000 mL, aduk hingga homogen.
Add purified water up to 1000 mL, stir until homogenous.
- 5.1.3. Larutan A (Konsentrasi 1 mg/ml)
Solution A (Concentration 1 mg/ml)
 - 5.1.3.1. Timbang seksama 221 mg sodium fluoride yang sebelumnya telah dikeringkan pada suhu 150° selama 4 jam, masukkan dalam labu ukur 100 mL.
Weight 221 mg Sodium Fluoride which has previously been dried at 150° for 4 hours, put it in a 100 mL volumetric flask.
 - 5.1.3.2. Tambahkan 20 mL air, aduk sampai larut.
Add 20 mL purified water, stir until soluble.
 - 5.1.3.3. Tambahkan 1.0 mL larutan Sodium Hydroxide 0.01 N.
Add 1.0 mL Sodium Hydroxide solution 0.01 N.
 - 5.1.3.4. Tambahkan air hingga tanda batas, kocok sampai homogen.
Add purified water up to 1000 mL, shake until homogenous.
 - 5.1.3.5. Setiap mL larutan mengandung 1 mg Fluoride.
Each mL solution contains 1 mg Fluoride.
 - 5.1.3.6. Simpan dalam wadah plastik tertutup rapat.
Store in a tightly closed plastic container.

8	8	0	4	12	2
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