

Bagian: QC

Due date : 8-Oct-26

Tanggal : 4-Aug-26

ANALISA PERMINTAAN BARANG

No	Kode Barang	Nama Barang	Satuan	Stok Saat Ini (A)	Rencana Kebutuhan (B)	Kekurangan (A -B + C)	Pending Penerimaan (C)	Jumlah	Realisasi Pembelian	Realisasi Penggunaan
1	FCIP00188	Raman Spectroscopy	Un	0	1	-1	0	1	0	0

Catatan :

Raman Spectroscopy, Digunakan untuk uji identifikasi bahan baku oleh inspector QC pada wadah bahan baku pada saat kedatangan awal untuk bahan aktif dan bahan tambahan pada saat penerimaan dan karantina di gudang.

- Alat ini berfungsi untuk memastikan identifikasi bahan baku tiap wadah kedatangan sesuai dengan identitas pada wadah bahan baku.

Latar Belakang Permintaan :

- Saat ini karena alat nanoram rusak maka uji identifikasi dilakukan dengan FT-IR di lab kimia QC dengan cara membuka dan mengambil sampel seluruh wadah bahan baku dan diuji dengan FT-IR di laboratorium kimia

- Penggantian alat yang rusak dengan no.inventaris : 044/D.01/QC/KIMI/03/15 dengan lama masa pakai ± 11 tahun, saat ini mengalami kerusakan dan tipe alat sudah discontinue di manufaktur sehingga tidak dapat disupport perbaikan oleh manufaktur maupun suplier

Terlampir latar belakang permintaan barang, Penawaran harga, Perbandingan performance beberapa brand, Foto alat yang rusak dan Berita acara kerusakan alat.

Dibuat

Mengetahui

 04/26
08/08 09/26

 09/26
08/08



PT. MERSIFARMA TM
SUKABUMI-INDONESIA

FORMULIR LATAR BELAKANG PERMINTAAN BARANG

Diisi oleh Pemohon

DEPARTEMEN : QUALITY CONTROL

No. : 017 /LBPB/ VII /2026
Alma 26/07/26

- ☐ Peralatan Produksi
☐ Peralatan Engineering
☐ Peralatan Umum / Logistik / K3
☐ Peralatan Komputer

- ☒ Peralatan Laboratorium
☐ _____
☐ _____
☐ _____

Rencana Waktu Penggunaan:
Oktober 2026

Lead time Purchasing :

60 hari

- ☐ Peralatan Baru ☐ Penambahan ☐ Penggantian ☐ Berita Acara Kerusakan

SYARAT WAJIB PERALATAN BARU DAN PENAMBAHAN:

1. Lampirkan Foto / Brosur / Leaflet / Drawing Peralatan Baru.
2. Lampirkan Estimasi Harga atau Penawaran Harga.
3. Permintaan Peralatan Jenis Baru dibuat hanya sekali untuk awal mendaftarkan ke sistem QAD.
4. Permintaan Penambahan Peralatan jenis yang sama tetap mengisi Formulir dengan melampirkan Histori Peralatan beserta Nomor Inventaris sebelumnya.
5. Barang diterima oleh Pemohon wajib memberikan Nomor Inventaris sesuai penomoran standar perusahaan.

SYARAT WAJIB PENGANTIAN:

1. Lampirkan Foto Peralatan sebelumnya yang akan diganti.
2. Lampirkan Berita Acara Kerusakan.
3. Permintaan Penggantian Peralatan tetap mengisi Formulir dengan menyampaikan penggantian dengan Jenis yang sama dari sebelumnya atau Jenis Baru.
4. Barang diterima oleh Pemohon wajib memberikan Nomor Inventaris sesuai penomoran standar perusahaan.

Nama Barang

Nama & Spesifikasi Barang (Merk, Tipe, dan Keterangan Lainnya)

Jumlah
Unit

Estimasi
Harga

Masa Waktu
Pakai

Masa Frekuensi
Pakai

Raman Spectroscopy Material Analyzer BRAVO
Brand : Bruker
Model : BRAVO

1

Rp.1.620.024.150,-

10-15 tahun

Setiap hari

Keterangan lainnya tercantum pada Quotation.

Latar Belakang Permintaan & Peruntukkan

Tersedia alat Raman Spectroscopy Nanoram / BWTEK 785 dengan nomor inventaris 044/D.01/QC/KIMI/03/15. Alat dibeli tahun 2015 dan saat ini mengalami kerusakan dan tipe alat sudah discontinued di manufaktur sehingga tidak dapat disupport perbaikan oleh manufaktur maupun supplier.

Alat Raman Spectroscopy digunakan untuk uji identifikasi bahan baku oleh Inspector QC langsung pada wadah bahan baku pada saat penerimaan dan karantina di Gudang. Alat ini berfungsi untuk memastikan identitas bahan baku tiap wadah kedatangan sesuai dengan identitas pada wadah bahan baku. Saat ini karena alat Nanoram rusak maka uji identifikasi dilakukan dengan FTIR di lab kimia QC dengan cara membuka dan mengambil sampel seluruh wadah bahan baku dan diuji dengan FTIR di lab kimia QC.

Dibuat:

Tgl. : 29/07/26

Nama : VABOLLA B.D.

(Koordinator / Supervisor)

Diperiksa & disetujui :

Tgl. : 29/07/26

Nama : Robertus M. P.

(Manager)

Nomor : PP-FO/001.00
Dokumen

Tanggal : **24 DEC 2025**
Berlaku

Disetujui :
Oleh



NOVATECH

QUOTATION

To :	PT. MERSIFARMA TIRMAKU MERCUSANA Wisma Tiara 4th FL Jl. Raya Pasar Minggu KM 18 No 17, RT.1/RW.1, West Pejaten, Pasar Minggu, South Jakarta City, Jakarta 12510
Attn :	Bpk Marco Notoprawiro

Date	: 13 Juli 2026
Quotation Ref.	: NVT/26849a/0726/RE

No.	Part of Description	Qty	Unit Price	Total Price
	ALTERNATIF I			
1	Material Analyzer BRAVO Brand: Bruker Model: BRAVO Country of Origin: Germany The BRAVO is a reliable dedicated high performance analyzer for material verification and identification. Based on Raman-Spectroscopy with patented fluorescence mitigation (SSE) and low Laser power the BRAVO enables the identification of materials including dark, fluorescing and weak scattering samples within seconds. A touch screen with application specific intuitive user interface (cGMP compliant) provides easy operation resulting in an optimized workflow. Data and reports can be transferred wireless or up-/downloaded via an available docking station. The scope of delivery comprises: - BRAVO analyzer - Additional battery and charger - Changeable measuring tips for point-shoot mode and vials - Polystyrene reference sample (BRM400) - Calcite reference sample (BRM401) - OPUS/IR spectroscopy software and OPUS/Search on USB stick - Documentation on USB stick - Quick reference guide - Strap for carrying/holding BRAVO including tools for de/mounting - Microfiber tissue - Carrying case, Dimensions (LxWxH): 406mm x 330mm x 174mm Weight: 2.5kg Required for Qualification and Validation: - S11 BRAVO Qualification and Validation Package Required: - Data system Recommended: - S201 Docking station - S940-1 Service/installation charge, on-site	1	IDR 1.620.024.150	IDR 1.620.024.150
				
1.2	S201 Docking station for BRAVO The docking station facilitates - up-/downloading of data and reports onto a PC/network - internal battery compartment for charging a battery - storage position for one measuring tip - storage position for Polystyrene reference sample BRM400 The scope of delivery comprises: - docking station including 1x USB A, 1x Ethernet RJ45 - power supply and power cord - Cable, RJ45, crossover, 3m - storage case, Dimensions (LxWxH): 470mm x 357mm x 176mm Weight: 2.9kg	1	Included	
1.3	S153 Glass vials incl. stoppers , 200 pieces Recommended: S154 Septa for stoppers	1	Included	



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No.	Part of Description	Qty	Unit Price	Total Price
1.4	S154 Septa for stoppers in S153; 1,000 pieces	1	Included	
1.5	R422 Measuring tip with adjustable focus position Measuring tip for measuring samples in point-shoot-mode through packaging materials of different thickness, e.g. glass bottles.	1	Included	
1.6	S011 BRAVO qualification and validation package incl. certification tests according to EP and USP under OPUS Software version 8.9 This package consists of validation software (OPUS/Validation), Bruker validation manual and validation standards with Certificate-of-Origin (Cyclohexane in vial, Naphthalene in vial, Benzonitrile in vial, Acetaminophen in vial (0.005Kg) and Acetaminophen in PE bag (0.002Kg)) for operation in validated environments in compliance to 21 CFR Part 11 and GMP regulations. (Acetaminophen CAS-Nr. 103-90-2) For laboratory diagnostic use only, not for human or animal consumption UN1145 Cyclohexane, 0.004L Class 3 / PG II / Packing Instr. 353 / CAS-No. 110-82-7 UN1334 Naphthalene, refined, 0.005Kg Class 4.1 / PG III / Packing Instr. 446 / CAS-No. 91-20-3 UN2224 Benzonitrile, 0.001L Class 6.1 / PG II / Packing Instr. 654 / CAS-No. 100-47-0 All packed in one fibreboardbox	1	Included	
1.7	Local Supply (PC & Printer)	1	Included	
			SUB TOTAL	IDR 1.620.024.150
			PPN 11%	IDR 178.202.657
			GRAND TOTAL	IDR 1.798.226.807

[Handwritten signature]
29/7/16

Jl. Duta Boulevard Barat
Ruko Duta Harapan Blok D.37A
Kota Bekasi 17123
Website: www.dgscientific.com
Phone/Fax: [+62-21] 88985973, 88893164

QUOTE

DATE	8-Jul-26
QUOTE #	0135/Q/VII/2026
VALID UNTIL	8-Aug-26
Currency	IDR
REV.	#00

CUSTOMER

Kepada Yth.
Pak Perdana
PT Mersifarma Tirmaku Mercusana

Prepared by:

Nuke Deby Hastine
nuke.deby@dgscientific.com
0812-8660-9780

No	Description	Unit Price	Qty	Amount
1	Handheld Raman Spectroscopy Model: JINSP RS1500DI  RS1500DI uses a unique 1064nm laser with a broad detection range, especially for aminoacids, coenzymes, cellulose and other raw materials with strong fluorescent signals. Furthermore, RS1500DI is compliant with relevant regulations such as FDA 21 CFR Part11 and GMP. It can quickly identify raw materials in warehouses, material preparation rooms, production workshops, etc., helping pharmaceutical companies to quickly release materials. Features: - A wide range of detection, chemical, biochemical raw materials, and pigments can be identified - It can be directly tested through glass, woven bags, paper bags, plastics, and another packaging (RS1500DI) - Small and lightweight, it can be flexibly moved in warehouses, material preparation rooms, production workshops and other sites - Quick response and identification can be completed in seconds - No need to take sampling, no need to transfer raw and auxiliary materials to the sampling room, which can avoid sampling contamination - Accurate identification, using advanced machine learning algorithm, strong specificity Library: • Chemical raw materials: aspirin, acetaminophen, folic acid, niacinamide, etc. • Pharmaceutical excipients: salts, alkalis, sugars, esters, alcohols, phenols, etc. • Packaging material: polyethylene, polypropylene, polycarbonate, ethylene-vinyl acetate copolymer • Biochemical APIs: amino acids and their derivatives, enzymes and coenzymes, proteins • Pigment excipients: carmine, carotene, curcumin, chlorophyll, etc. • Other polymer excipients: gelatin, microcrystalline cellulose, etc. Specification: - Technology : Raman Technology - Laser : 1064nm - Connectivity : USB/ Wi-Fi/ 4G/ Bluetooth	967,500,000	1	967,500,000

- Power : Rechargeable Li-ion battery
- Data Format : SPC/ txt/ JPEG/ PDF

TERMS AND CONDITIONS

TOTAL

967,500,000

1. Price is Exclude Tax (PPN). FRANCO ON SITE
2. Payment : DP 50%, full payment before delivery
3. Delivery : Indent 4 - 12 weeks after PO received
4. Warranty : - 1 year for main unit and part except consumable part
: Installation and Training

If you have any questions about this price quote, please don't hesitate to contact us

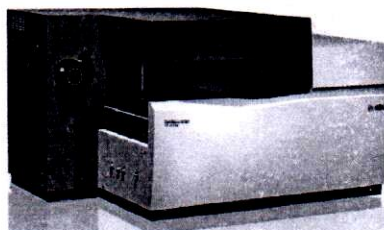
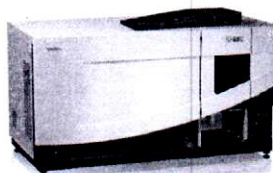
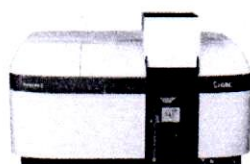
Thank You For Your Business!

GBC Scientific Equipment Authorized Distributor



Manufacturer of world class scientific equipment and accessories: AAS, HPLC, ICP-OES, ICP-MS/TOFMS, Rheometry, UV-Vis and XRD since 1978.

**ISO
9001**





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No.	Part of Description	Qty	Unit Price	Total Price
	ALTERNATIF II			
1	Material Analyzer BRAVO Brand: Bruker Model: BRAVO Country of Origin: Germany The BRAVO is a reliable dedicated high performance analyzer for material verification and identification. Based on Raman-Spectroscopy with patented fluorescence mitigation (SSE) and low Laser power the BRAVO enables the identification of materials including dark, fluorescing and weak scattering samples within seconds. A touch screen with application specific intuitive user interface (cGMP compliant) provides easy operation resulting in an optimized workflow. Data and reports can be transferred wireless or up-/downloaded via an available docking station. The scope of delivery comprises: - BRAVO analyzer - Additional battery and charger - Changeable measuring tips for point-shoot mode and vials - Polystyrene reference sample (BRM400) - Calcite reference sample (BRM401) - OPUS/IR spectroscopy software and OPUS/Search on USB stick - Documentation on USB stick - Quick reference guide - Strap for carrying/holding BRAVO including tools for de/mounting - Microfiber tissue - Carrying case, Dimensions (LxWxH): 406mm x 330mm x 174mm Weight: 2.5kg Required for Qualification and Validation: - S11 BRAVO Qualification and Validation Package Required: - Data system Recommended: - S201 Docking station - S940-1 Service/installation charge, on-site	1	IDR 1.507.268.100	IDR 1.507.268.100
				
1.2	S153 Glass vials incl. stoppers , 200 pieces Recommended: S154 Septa for stoppers	1	Included	
1.3	S154 Septa for stoppers in S153; 1,000 pieces	1		
1.4	R422 Measuring tip with adjustable focus position Measuring tip for measuring samples in point-shoot-mode through packaging materials of different thickness, e.g. glass bottles.	1	Included	
1.5	S011 BRAVO qualification and validation package incl. certification tests according to EP and USP under OPUS Software version 8.9 This package consists of validation software (OPUS/Validation), Bruker validation manual and validation standards with Certificate-of-Origin (Cyclohexane in vial, Naphthalene in vial, Benzonitrile in vial, Acetaminophen in vial (0.005Kg) and Acetaminophen in PE bag (0.002Kg)) for operation in validated environments in compliance to 21 CFR Part 11 and GMP regulations. (Acetaminophen CAS-Nr. 103-90-2) For laboratory diagnostic use only, not for human or animal consumption UN1145 Cyclohexane, 0.004L Class 3 / PG II / Packing Instr. 353 / CAS-No. 110-82-7 UN1334 Naphthalene, refined, 0.005Kg Class 4.1 / PG III / Packing Instr. 446 / CAS-No. 91-20-3 UN2224 Benzonitrile, 0.001L Class 6.1 / PG II / Packing Instr. 654 / CAS-No. 100-47-0 All packed in one fibreboardbox	1	Included	



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No.	Part of Description	Qty	Unit Price	Total Price
1.6	Local Supply (PC & Printer)	1	Included	
SUB TOTAL				IDR 1.507.268.100
PPN 11%				IDR 165.799.491
GRAND TOTAL				IDR 1.673.067.591

Term & Condition

Price : Franco at Site in Indonesian Rupiah (IDR)

Price include Installation and Training with 1 (One) year Warranty

Delivery : 3-4 (Three to Four) months after received of Purchase Order

Payment : 50% (Fifty Persen) Down Payment & 50% (Fifty Persen) after installation & training

Validity : 4 (Four) weeks

Best Regards,

PT. Novatech Integra Solusindo


NOVATECH

Rizkia Selpasuari
Sales Manager

SALES : RAMADHANI ERINDRA
MOBILE : +62 822-8065-6913

No.	Description	Qty.	Unit Price	Total
	HandHeldRaman Analyzers TYPE : TruScan G3 BRAND : Thermo Scientific  Specification : Raman spectrum range : 250 to 2875 cm⁻¹ Spectral resolution : 8 to 10.5 cm⁻¹ (FWHM) across range Laser (excitation wavelength) : 785 nm +/-0.5 nm, 2 cm⁻¹ line width, stability <0.1 cm⁻¹ Laser output power : 250 mW +/-25 mW Collection optics : NA=0.33, 16mm working distance; 0.2 mm spot size Exposure : Exposure time set automatically Battery : Rechargeable internal lithium ion battery > 3 hours operation External power supply : DC Wall Adapter, 100-240 V AC 50/60 Hz Weight : 2.1 lb (0.95 kg) Size : 7.8 in x 4.6 in x 1.8 in (19.9cm x 11.8cm x 4.6cm) Operating temperature : -20°C to +50°C Connectivity : Ethernet, WiFi (optional) Ports : USBc and Power Operating systems and browsers : OS: Windows 10 and 11; Browsers: Edge and Chrome Barcode supported symbologies : Most linear and 2D standards Measurement accessories : Vial holder and nose cone Compliance : FDA 1040, 21 CFR Part 11, CE certification, Ph. Eur. 8.7 Completed with :		Rp 1.700.000.000 Special Discount 25%	Rp 1
1	TruScan G3 Handheld Raman Analyzer Contains TruScan G3 Handheld Raman Analyzer only Includes one (1) year product Warranty covering parts and labor, unlimited technical support and OS software updates. All hardware accessories include one (1) year standard manufacturer warranty. Comes with protective cover (boot), two (2) hot swap batteries, vial holder, battery charger and wall adapter, AC power supply, Wi-Fi dongle, USB-C to Ethernet Dongle, standard and crossover Ethernet cables, nose cone (2), certified polystyrene rod.	1		
2	TruScan G3/RM/GP IQOQPQ Chemical Kit	1		
3	HP Pro Twr 280 G9 EP Include "HP-23.8" HP Series Monitor - 3 Pro 324pv 23.8in FHD" and Printer HP Laserjet M107W	1		

1 & Condition :

3 : Franco at Site in IDR, include installation, training & 12 months warranty, exclude VAT 11%

very : 6-10 (six to ten) weeks after received of DP

nent : 30% down payment and 70% after istallation and training

lity : 4 (four) weeks

ir Faithfullv

TruScan G3 Run Report

thermo
scientific

Report Data

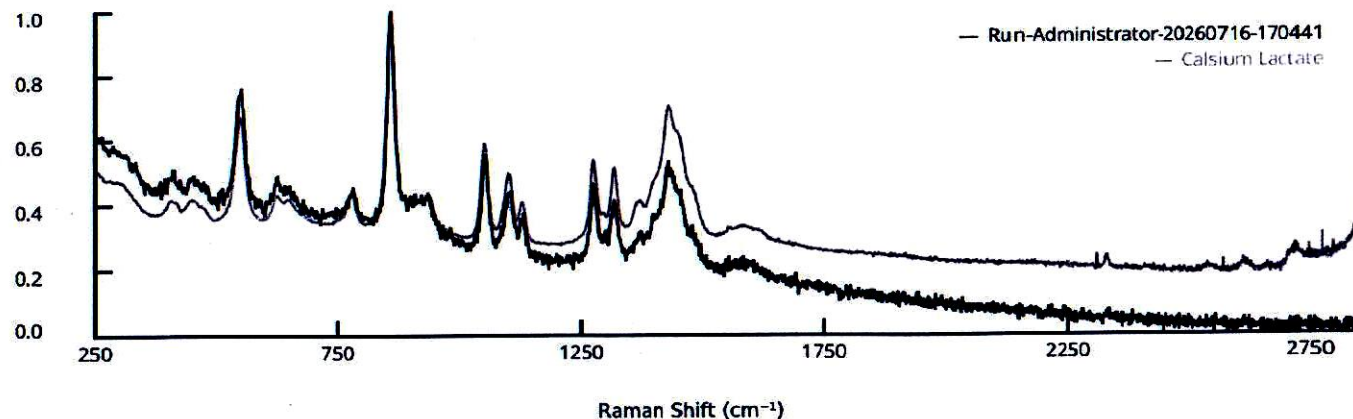
Serial Number: TR00685
Software Version: 1.1.3-7325

Last Self Test: 16 Jul 2026 14:35
Last Self Test Result: Pass
Acquired by: Administrator
Acquired on: 16 Jul 2026 17:04
Synced by: Administrator
Synced on: 16 Jul 2026 17:06
Login Time: 16 Jul 2026 14:35

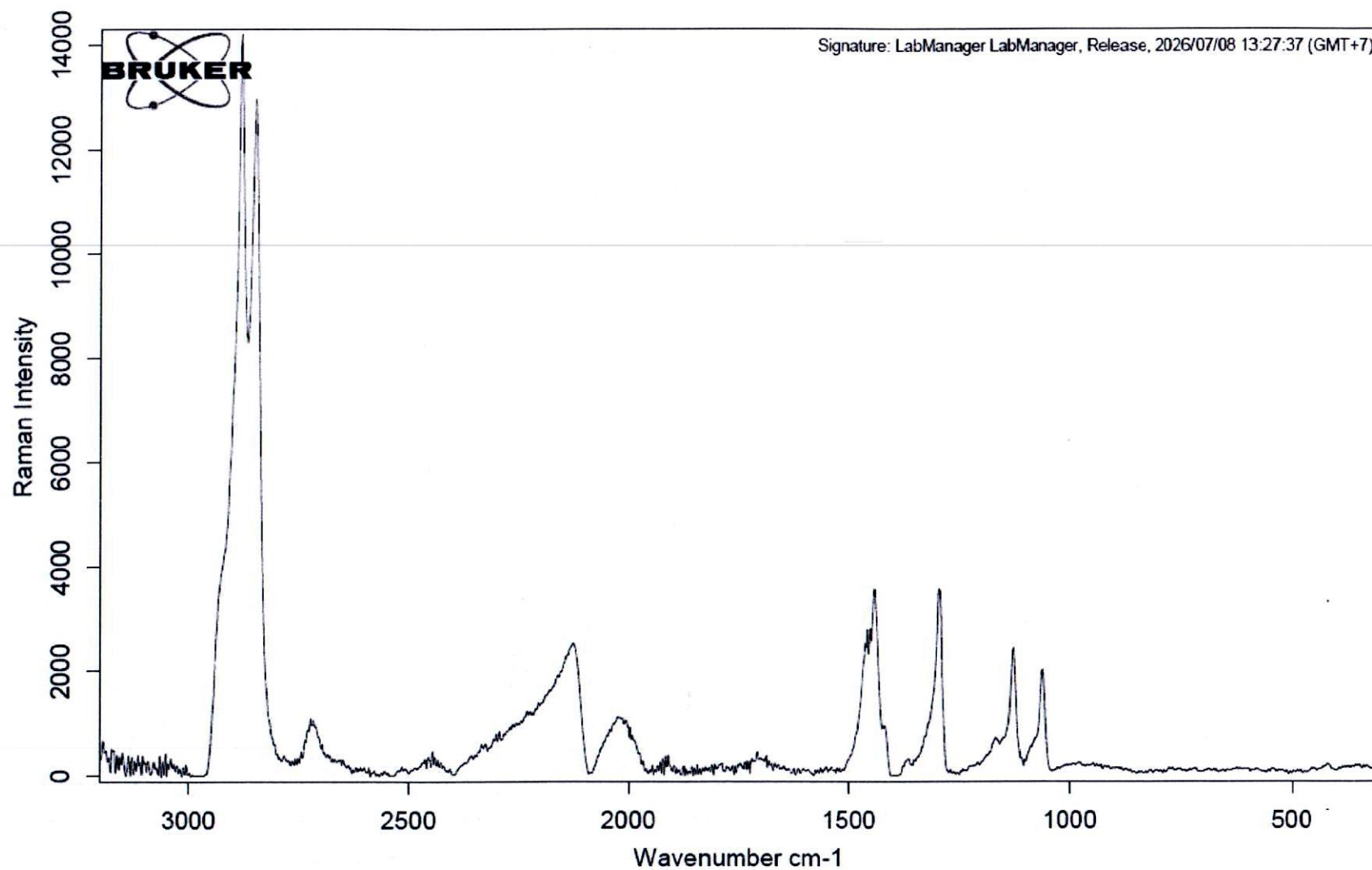
Scan Data

Run Label: Run-Administrator-20260716-170441
Method Name: Calcium Lactate
Method Barcode:
Preprocessing: 1st Derivative
Result: Pass
Batch ID: 26FC0507
Sample ID: 26FC0507-001
Note:
Pval: 0.4500
Accessory: Nose Cone

Calcium Lactate: Pass



Spectrum Result – Aerosil



Number: 1004

Inspection report

Material name: Aerosil

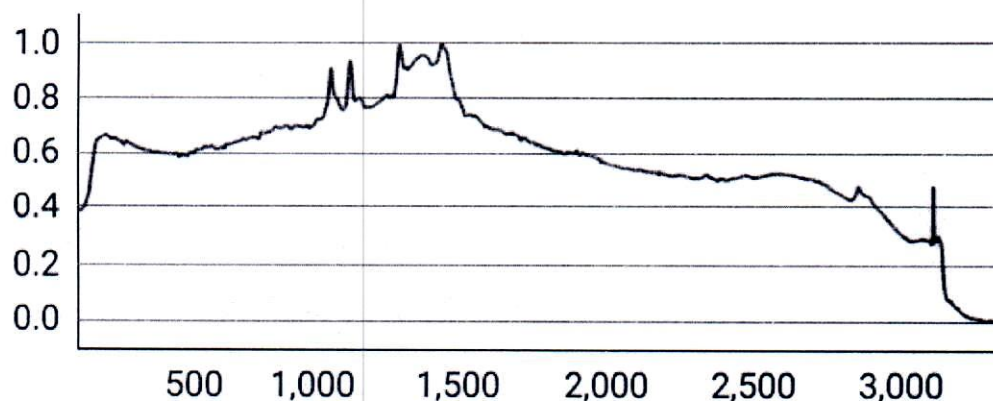
Similarity 0.92

Properties: Medicines

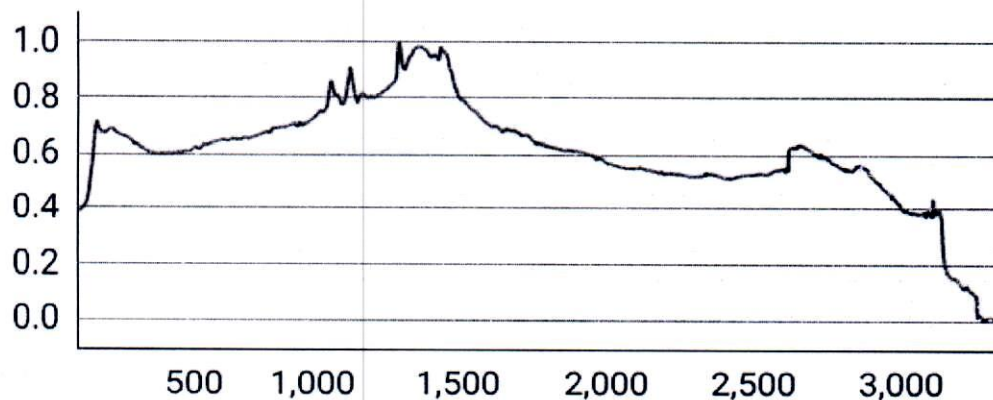
Inspection date: 2026-07-01 13:54:27



Sample: (Location: Fix position failed)



Reference: F Other



Operator: Admin

Report date: 2026-07-06 08:26:38